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# **WATER SUPPLY OUTLOOK FOR WASHINGTON**



**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

DEPARTMENT OF ECOLOGY STATE OF WASHINGTON

AS OF  
MAY 1, 1974

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Snow Surveyors near Ship Creek,  
Alaska snow course.*

NRCS PHOTO A-272-11

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

| STATE              | ADDRESS   |
|--------------------|---|
| Alaska             | 204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501                 |
| Arizona            | 6029 Federal Building, Phoenix, Arizona 85025                       |
| Colorado (N. Mex.) | P. O. Box 17107, Denver, Colorado 80217                             |
| Idaho              | Room 345, 304 N. 8th. St., Boise, Idaho 83702                       |
| Montana            | P. O. Box 98, Bozeman, Montana 59715                                |
| Nevada             | P. O. Box 4850, Reno Nevada 89505                                   |
| Oregon             | 1218 S. W. Washington St., Portland, Oregon 97205                   |
| Utah               | 4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138 |
| Washington         | 360 U.S. Court House, Spokane, Washington 99201                     |
| Wyoming            | P. O. Box 2440, Casper, Wyoming 82601                               |

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR WASHINGTON**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

**KENNETH E. GRANT**  
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SOIL CONSERVATION SERVICE  
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SPOKANE, WASHINGTON

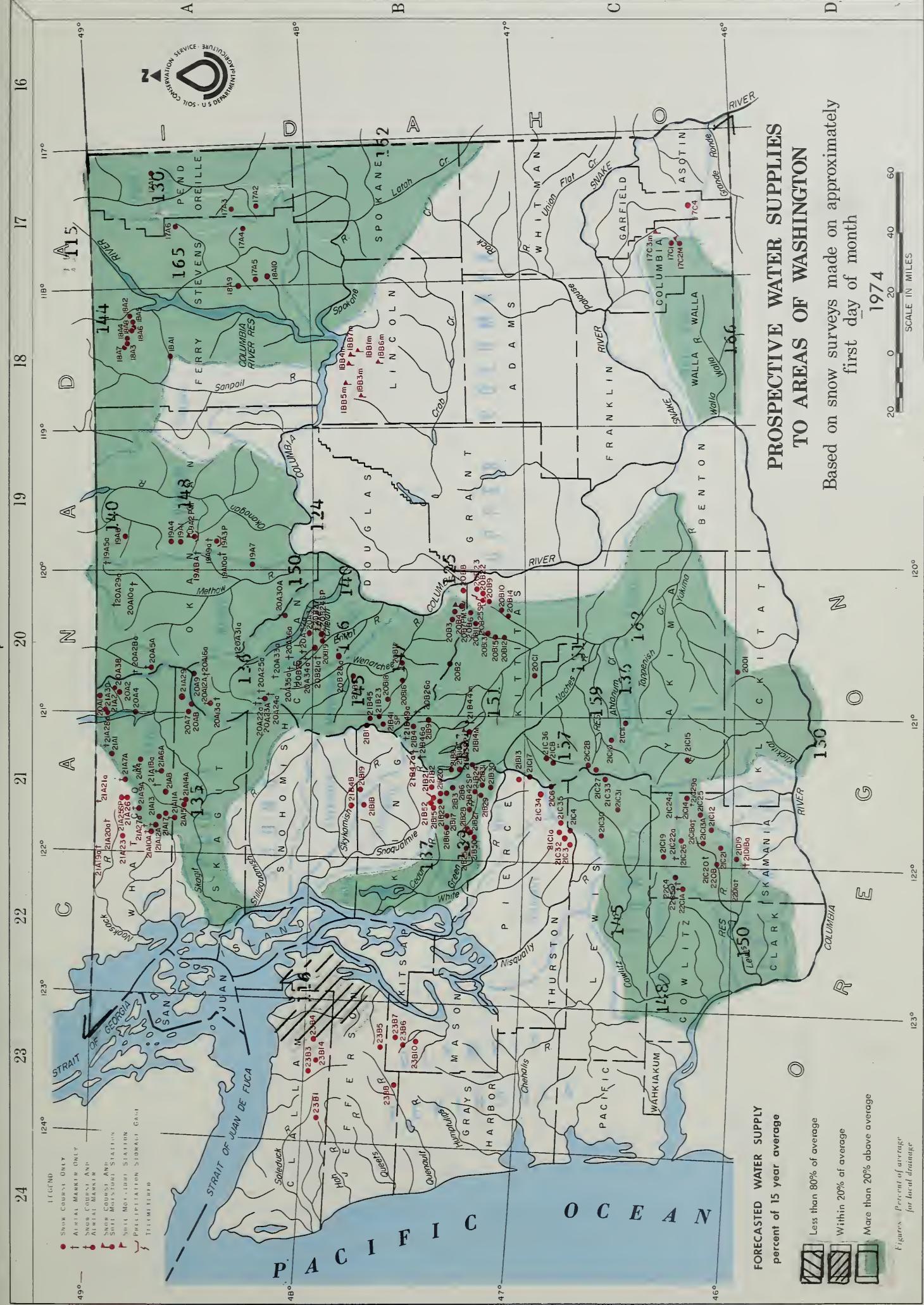
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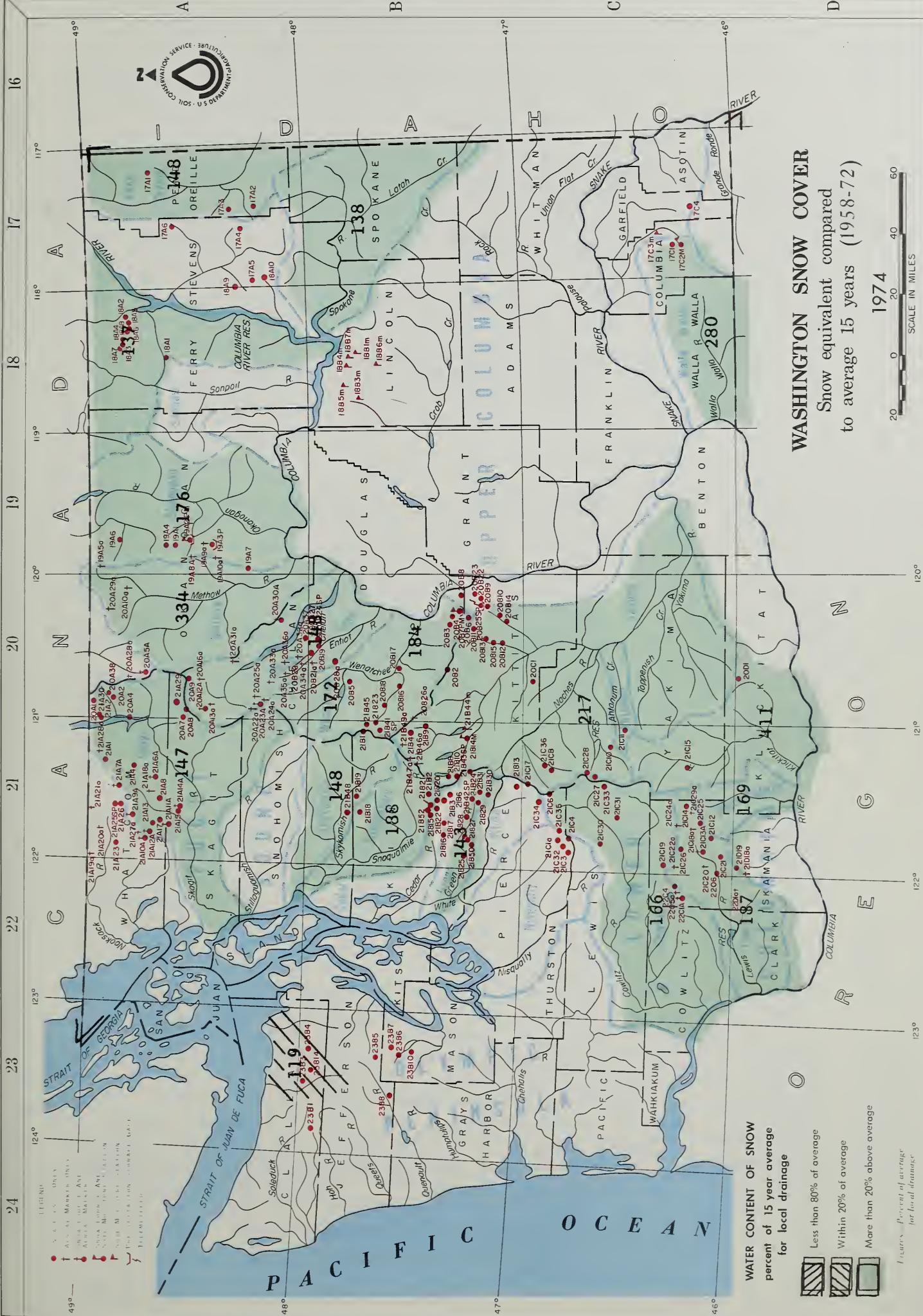
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# INDEX to WASHINGTON SNOW COURSES, SOIL MOISTURE STATIONS and PRECIPITATION STORAGE GAGES

| NAME                           | NUMBER  | SEC. | TWP. | RANGE | ELEV. | NAME                          | NUMBER  | SEC. | TWP. | RANGE | ELEV.        | NAME                    | NUMBER | SEC. | TWP. | RANGE | ELEV. | NAME           |
|--------------------------------|---------|------|------|-------|-------|-------------------------------|---------|------|------|-------|--------------|-------------------------|--------|------|------|-------|-------|----------------|
| <b>UPPER COLUMBIA DRAINAGE</b> |         |      |      |       |       |                               |         |      |      |       |              |                         |        |      |      |       |       |                |
| Pend Oreille River             |         |      |      |       |       | Wenatchee River (continued)   |         |      |      |       |              | Lewis River (continued) |        |      |      |       |       | Skagit River   |
| Boyer Mountain                 | 1712    | 7    | 51N  | 43E   | 5250  | Divide Meadow                 | 21029a  | 21   | 9N   | 10E   | 5600         | Beaver Creek Trail      | 21A4   | 35   | 39N  | 12E   | 2200  |                |
| Funchygrass Meadow             | 17A1    | 24   | 37N  | 44E   | 5000  | Grand Meadow                  | 21025   | 28   | 8N   | 9E    | 3500         | Beaver Pass             | 21A1   | 9    | 39N  | 12E   | 3680  |                |
| Winchester Creek               | 17A3    | 50   | 35N  | 45E   | 2970  | Lone Pine Shelter             | 21026   | 8    | 9N   | 7E    | 3800         | Brown Top               | 21A28a | 26   | 40N  | 12E   | 6000  |                |
| Kettle River                   |         |      |      |       |       | Colockum Creek Upper          | 20822   | 11   | 20N  | 20E   | 5300         | Marble Mountain         | 21025  | 24   | 38N  | 16E   | 5900  |                |
| boulder Road                   | 18A2    | 36   | 39N  | 36E   | 1450  | Colockum Creek Lower          | 20823   | 1    | 20N  | 20E   | 4300         | Old Man's River         | 21026  | 36   | 8N   | 6E    | 2000  |                |
| Butte Creek                    | 18A3    | 28   | 39N  | 35E   | 4070  | Beeline Springs               | 20824   | 12   | 21N  | 19E   | 4400         | Freezeout Creek Trail   | 20A1   | 13   | 40N  | 14E   | 3500  |                |
| Cabin Creek                    | 18A4    | 5    | 38N  | 36E   | 3170  | Scout-A-Vista                 | 20825   | 18   | 21N  | 20E   | 3400         | Freezeout Meadows       | 20A38  | 8    | 40N  | 16E   | 5000  |                |
| Goat Creek                     | 18A5    | 26   | 39N  | 35E   | 3595  | Stemilt Creek                 | 20826   | 34   | 21N  | 20E   | 4450         | Frezeout Meadows New    | 20A38  | 25   | 36N  | 16E   | 3500  |                |
| Snow Cap's Creek               | 18A6    | 3    | 38N  | 36E   | 2150  | Jump-Off                      | 20827   | 208  | 21N  | 20E   | 4400         | Granite Creek           | 21A29  | 19   | 40N  | 14E   | 2600  |                |
| Summit G. S.                   | 18A7    | 20   | 39N  | 35E   | 4600  | Stemilt Slide                 | 20828   | 30   | 21N  | 20E   | 4400         | Lake Horcomen           | 21A2   | 29   | 36N  | 14E   | 1900  |                |
| Coville River                  |         |      |      |       |       | Upper Wheeler                 | 20829   |      |      |       |              | Surprise Lakes          |        |      |      |       |       | Meadows Cabins |
| Gaird                          | 1746    | 19   | 56N  | 42E   | 5215  | Creston-kunz                  | 20830   |      |      |       |              | Table Mountain          | 21C13a | 10   | 7N   | 8E    | 4250  | 20A8           |
| Carlson                        | 18A9    | 34   | 32N  | 38E   | 2885  | Jack Woods                    | 20831   |      |      |       |              | Timbered Peak           | 21C14a | 20   | 9E   | 4200  | 20A7  |                |
| Cheewalah                      | 17A4    | 11   | 32N  | 41E   | 5700  | Krause                        | 20832   |      |      |       |              | Thunder 8asin           | 21A30  | 15   | 35N  | 14E   | 2800  |                |
| Stranger Mountain              | 17A5    | 26   | 31N  | 38E   | 4990  | Scheffels                     | 20833   |      |      |       |              |                         |        |      |      |       |       |                |
| Togo                           | 18A10   | 6    | 29S  | 38E   | 5370  | Sherman                       | 20834   |      |      |       |              |                         |        |      |      |       |       |                |
| Sonpoin River                  |         |      |      |       |       | Wheatridge                    | 20835   |      |      |       |              |                         |        |      |      |       |       |                |
| Sherman Creek Pass             | 18A1    | 19   | 36N  | 35E   | 5350  | Yakima River                  | 20836   |      |      |       |              |                         |        |      |      |       |       |                |
| Clark                          | 19A8a   | 2    | 36N  | 23E   | 7000  | Altanum R. S.                 | 21C11   | 26   | 12N  | 14E   | 5100         | Cayuse Pass             | 21C19  | 15   | 16N  | 10E   | 5300  |                |
| Muckanuck                      | 19A9a   | 20   | 36N  | 24E   | 6750  | 81g Boulder Creek             | 21C19   | 35   | 10N  | 7E    | 4100         | Dock Butte              | 21A11a | 9    | 36N  | 8E    | 3800  |                |
| Mutton Creek No. 1             | 19A1    | 30   | 37N  | 24E   | 5700  | Bumping Lake New              | 21C36   | 15   | 16N  | 12E   | 3400         | Easy Pass               | 21A7a  | 19   | 39N  | 11E   | 5200  |                |
| Mutton Creek No. 2             | 19A2    | 19   | 37N  | 24E   | 6000  | Gooke Creek                   | 20839   | 25   | 20N  | 20E   | 5370         | Jasper Pass             | 21A6a  | 17   | 38N  | 11E   | 5400  |                |
| Payartsen                      | 20A28a  | 32   | 40N  | 18E   | 4300  | Bonney Flat                   | 20840   | 17   | 19N  | 20E   | 4123         | Komo Kulshan            | 21A17  | 31   | 37N  | 9E    | 800   |                |
| Rusty Creek                    | 19A3P   | 18   | 35N  | 24E   | 4000  | Fish Lake                     | 21A84   | 34   | 20N  | 20E   | 4200         | Marten Lake             | 21A9a  | 27   | 38N  | 10E   | 4500  |                |
| Salmon Meadows                 | 19A3PM  | 33   | 37N  | 24E   | 4500  | Green Lake                    | 20841   | 29   | 21N  | 19E   | 2350         | Mount 81um              | 21A8a  | 20   | 37N  | 8E    | 2100  |                |
| Starvation Mtn.                | 19A10   | 15   | 35N  | 23E   | 6750  | Grouse Camp                   | 20842   | 34   | 20N  | 19E   | 2300         | Rocky Creek             | 21A10a | 18   | 37N  | 8E    | 3400  |                |
| Tours Coulee                   | 19A6    | 30   | 39N  | 25E   | 2845  | Hugh Creek                    | 21A84a  | 22   | 20N  | 19E   | 2200         | Schreiber's Meadow      | 21A14a | 20   | 36N  | 9E    | 2200  |                |
| Methow River                   |         |      |      |       |       | Joe Lake                      | 21A84b  | 7    | 23N  | 13E   | 5327         | S. F. Thunder Creek     | 21A15  | 22   | 37N  | 16E   | 1600  |                |
| Billy Goat Pass                | 20A10a  | 10   | 38N  | 20E   | 6400  | Lemah Creek                   | 21C1    | 24   | 17N  | 16E   | 5395         | Sulphur Creek           | 21A15  | 18   | 36N  | 9E    | 1600  |                |
| Dollar Watch                   | 20A29a  | 8    | 39N  | 20E   | 7000  | Mannastash                    | 21C17   | 6    | 16N  | 5400  | Watson Lakes | 21A8                    | 25     | 37N  | 9E   | 4500  |       |                |
| Harts Pass                     | 20A5a   | 7    | 37N  | 18E   | 6500  | Morse Lake                    | 20843   | 4    | 20N  | 19E   | 3875         |                         |        |      |      |       |       |                |
| Horseshoe Basin                | 19A5a   | 15   | 40N  | 23E   | 7000  | Natum                         | 20844   | 20   | 19N  | 20E   | 5360         |                         |        |      |      |       |       |                |
| Loup Loup                      | 19A7    | 36   | 34N  | 23E   | 4650  | Trail Creek                   | 20845   | 15   | 19N  | 11E   | 2525         |                         |        |      |      |       |       |                |
| Cloudy Pass                    | 20A22a  | 12   | 31N  | 15E   | 6500  | Tumel Avenue                  | 20846   | 16   | 23N  | 15E   | 5225         |                         |        |      |      |       |       |                |
| Greenwood Flat                 | 20A25a  | 3    | 31N  | 16E   | 5340  | Walter's Pass                 | 20847   |      |      |       |              |                         |        |      |      |       |       |                |
| Little Meadow                  | 20A24a  | 8    | 31N  | 16E   | 5275  | Wapiti Lake                   | 21B49a  | 12   | 23N  | 13E   | 5024         |                         |        |      |      |       |       |                |
| Lyman Lake                     | 20A25a  | 18   | 31N  | 16E   | 5900  | White Pass (Leach Lake)       | 21C28   | 2    | 13N  | 11E   | 4500         |                         |        |      |      |       |       |                |
| Park Creek Flat                | 20A33a  | 18   | 34N  | 16E   | 2220  |                               | 21C27   | 1    | 13N  | 11E   | 4500         |                         |        |      |      |       |       |                |
| Park Creek Ridge               | 20A12a  | 7    | 34N  | 16E   | 4600  |                               |         |      |      |       |              |                         |        |      |      |       |       |                |
| Petersons                      | 20A16a  | 5    | 34N  | 17E   | 3750  |                               |         |      |      |       |              |                         |        |      |      |       |       |                |
| Rainy Pass                     | 20A30a  | 21   | 35N  | 17E   | 4780  |                               |         |      |      |       |              |                         |        |      |      |       |       |                |
| Safety Harbor                  | 20A30a  | 32   | 31N  | 20E   | 6300  |                               |         |      |      |       |              |                         |        |      |      |       |       |                |
| War Creek Pass                 | 20A31a  | 34   | 33N  | 18E   | 6500  |                               |         |      |      |       |              |                         |        |      |      |       |       |                |
| <b>LOWER COLUMBIA DRAINAGE</b> |         |      |      |       |       |                               |         |      |      |       |              |                         |        |      |      |       |       |                |
| Blue Creek (t. 5.)             | 20B28a  | 19   | 28N  | 18E   | 5425  | Green River                   | 21B24   | 18   | 20N  | 11E   | 1800         | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  |                |
| Brieef                         | 20B19   | 31   | 28N  | 19E   | 5100  | Morse Creek                   | 21B25   | 27   | 21N  | 8E    | 1200         |                         |        |      |      |       |       |                |
| Latent Meadows                 | 20A33a  | 28   | 31N  | 17E   | 4800  | Charley Creek                 | 21B45SP | 21   | 21N  | 9E    | 3200         |                         |        |      |      |       |       |                |
| Latent River Trail             | 20A34a  | 2    | 29N  | 17E   | 5150  | Cougar Mountain               | 21B27   | 14   | 20N  | 8E    | 2900         | Cox Valley              | 23B14  | 29   | 28N  | 6W    |       |                |
| Four Mile Ridge                | 20B17a  | 15   | 28N  | 19E   | 7000  | Grass Mountain No. 2          | 21B28   | 12   | 20N  | 8E    | 2100         |                         |        |      |      |       |       |                |
| Fox Camp                       | 20A36a  | 1    | 30N  | 18I   | 6310  | Lester Creek                  | 21B29   | 56   | 20N  | 10E   | 3100         |                         |        |      |      |       |       |                |
| Top Ridge                      | 20B20a  | 22   | 29N  | 18I   | 1500  | Lynn Lake                     | 21B30   | 21   | 20N  | 8E    | 4000         | Hurricane               | 23B13  | 56   | 29N  | 7W    | 4500  |                |
| Top Ridge Snow Pillow          | 20A35SP | 22   | 29N  | 18I   | 1300  | Homestead                     | 21B31   | 11   | 20N  | 10E   | 4030         |                         |        |      |      |       |       |                |
| High Ridge                     | 20A35a  | 31   | 30N  | 18I   | 6400  | Martin Springs (Heinrichs) M. | 21C2M   | 23   | 20N  | 10E   | 4040         |                         |        |      |      |       |       |                |
| Shady Pass                     | 20A357  | 20   | 29N  | 19I   | 6200  |                               |         |      |      |       |              |                         |        |      |      |       |       |                |
| Snow Brushy                    | 20B35a  | 21   | 30N  | 18I   | 3830  |                               |         |      |      |       |              |                         |        |      |      |       |       |                |
| Tomy Creek                     | 20B11a  | 10   | 28N  | 18I   | 5300  | Satus Pass                    | 20841   | 21   | 6N   | 17L   | 1030         |                         |        |      |      |       |       |                |
| <b>Wenatchee River</b>         |         |      |      |       |       |                               |         |      |      |       |              |                         |        |      |      |       |       |                |
| Perme Mill Creek (New)         | 21B125  | 7    | 26N  | 15L   | 2935  | White Salmon River            | 21C12   | 35   | 7N   | 5L    | 1000         | Snouqualmie River       | 21B18  | 31   | 27N  | 91    | 3500  |                |
| Blewett Pass No. 2             | 20B2    | 35   | 22   | 17L   | 1270  | Cultus Creek                  | 21B12   | 19   | 28N  | 11L   | 3625         | Alpine Meadow           | 21B18  | 21   | 28N  | 9W    | 3000  |                |
| Christian G. S.                | 20B16   | 1    | 25N  | 17I   | 1810  |                               | 21B18   | 26   | 26N  | 9L    | 1900         | Alpine Meadow           | 21B18  | 26   | 26N  | 9L    | 3000  |                |
| Lake Winchette                 | 20B15   | 33   | 27N  | 17I   | 1810  |                               |         |      |      |       |              |                         |        |      |      |       |       |                |
| Leavenworth R. S.              | 20B17   | 1    | 24N  | 15I   | 1177  | Blue Lake                     | 21B17   | 11   | 21N  | 9I    | 2500         | Deer Lake               | 23B1   | 14   | 28N  | 9W    | 3900  |                |
| Merritt                        | 20B18   | 1    | 26N  | 16I   | 2149  | Top Ridge                     | 21B18   | 8    | 22N  | 9L    | 3000         | Elwha River             | 23B1   | 14   | 28N  | 9W    | 3900  |                |
| Stevens Pass                   | 21B11   | 11   | 16I  | 13I   | 1070  | High Ridge                    | 21B18   | 8    | 22N  | 9L    | 3000         | Skokomish River         | 21C18a | 11   | 33   | 10L   | 2900  |                |
| Stevens Pass Sand Shed         | 21B15   | 12   | 26I  | 13I   | 1700  | Shady Pass                    | 21B18   | 1    | 22N  | 9L    | 3000         | Lake Elizabeth          | 21C18b | 11   | 33   | 10L   | 2900  |                |



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|--------------------------------|--------|------|------|-------|-------|-----------------------------|---------|------|------|-------|-------|-------------------------|--------|------|------|-------|-------|----------------------|
| <b>UPPER COLUMBIA DRAINAGE</b> |        |      |      |       |       |                             |         |      |      |       |       |                         |        |      |      |       |       |                      |
| Pend Oreille River             |        |      |      |       |       | Wenatchee River (continued) |         |      |      |       |       | Lewis River (continued) |        |      |      |       |       | Skagit River         |
| Boyer Mountain                 | 1742   | 7    | 5LN  | 43E   | 5250  | Trough #2                   | 208255P | 10   | 20N  | 20E   | 5310  | Divide Meadow           | 2129a  | 21   | 9N   | 10E   | 5600  | Beaver Creek Trail   |
| Funchgrass Meadow              | 1741   | 24   | 37N  | 44E   | 5000  | Coloquum Creek              | 20822   | 11   | 20N  | 20E   | 5300  | Grand Meadow            | 21225  | 28   | 8N   | 9E    | 3500  | Beaver Pass          |
| Winchester Creek               | 1743   | 30   | 35N  | 43E   | 2970  | Coloquum Creek Upper        | 20823   | 1    | 20N  | 20E   | 4300  | Lone Pine Shelter       | 2126   | 8    | 9N   | 7E    | 3800  | Brown Top            |
| Boulder Road                   | 1842   | 36   | 39N  | 36E   | 1450  | Eethive Springs             | 20823   | 12   | 21N  | 19E   | 4400  | Marble Mountain         | 2255   | 24   | 8N   | 5E    | 3200  | Devil's Park         |
| Butte Creek                    | 1843   | 28   | 39N  | 35E   | 4070  | Squilchuck Creek            | 2084    | 18   | 21N  | 20E   | 3400  | New Huddy River         | 2266   | 36   | 8N   | 6E    | 2000  | Freezout Creek Trail |
| Cabin Creek                    | 1848   | 5    | 38N  | 36E   | 3170  | Scout-A-Vista               | 2084    | 18   | 21N  | 20E   | 3400  | Oldman Pass             | 21019  | 22   | 6N   | 7E    | 3100  | Freezout Meadows     |
| Goat Creek                     | 1844   | 26   | 39N  | 35E   | 3595  | Stemilt Greek               | 2085    | 34   | 21N  | 20E   | 4350  | Plains of Abraham       | 2213   | 35   | 9N   | 5E    | 4400  | Freezout Meadows New |
| Snow Cap's Creek               | 1845   | 3    | 38N  | 36E   | 2150  | Stemilt Slide               | 2086    | 30   | 21N  | 20E   | 5000  | Smith Creek Road        | 2264   | 29   | 9N   | 6E    | 2100  | Granite Creek        |
| Snow Cap's Trail               | 1846   | 5    | 38N  | 36E   | 2720  | Upper Wheeler               | 2087PM  | 30   | 21N  | 20E   | 4400  | Spencer Meadow          | 21220a | 16   | 8N   | 7E    | 3400  | Lake Hosomene        |
| Summit G. S.                   | 1847   | 20   | 39N  | 35E   | 4600  | Crab Creek                  | 2088    | 34   | 21N  | 20E   | 4350  | Surprise Lakes          | 21213A | 14   | 7N   | 8E    | 4250  | Meadows Cains        |
| Sherman Creek Pass             | 1841   | 19   | 36N  | 35E   | 3550  | Creston-Kunz                | 1831m   | 32   | 27N  | 34E   | 2440  | Table Mountain          | 2124a  | 20   | 9N   | 9E    | 4200  | New Hozomeen         |
| Clark                          | 1948a  | 2    | 36N  | 23E   | 7000  | Jack Woods                  | 1833m   | 28   | 27N  | 31E   | 2750  | Timbered Peak           | 21018a | 36   | 6N   | 6E    | 3000  | New Hozomeen Lake    |
| Muckanuck                      | 1949a  | 20   | 36N  | 24E   | 6750  | Shaffells                   | 1843m   | 21   | 27N  | 33E   | 2420  | Wheatridge              | 21230  | 15   | 10N  | 10E   | 4500  | Thunder Basin        |
| Mutton Creek No. 1             | 1941   | 30   | 37N  | 24E   | 5700  | Sherman                     | 1835m   | 17   | 27N  | 32E   | 2378  | Yakima River            | 21241  | 26   | 10N  | 10E   | 4500  | Thunder Basin        |
| Mutton Creek No. 2             | 1944   | 19   | 37N  | 24E   | 6000  | Wheatridge                  | 1836m   | 24   | 27N  | 33E   | 2440  | Cowichan River          | 21211A | 26   | 12N  | 14E   | 4900  | Thunder Basin        |
| Payson                         | 1943P  | 20   | 36N  | 24E   | 4300  | Doberry Flat                | 21844m  | 15   | 20N  | 14E   | 2200  | Baker Pass              | 21217A | 1    | 37N  | 7E    | 3800  | Thunder Basin        |
| Rusty Creek                    | 1943P  | 18   | 35N  | 24E   | 4000  | Fish Lake                   | 21841   | 34   | 24N  | 14E   | 3371  | Dock Butte              | 21217A | 19   | 39N  | 10E   | 5200  | Thunder Basin        |
| Salmon Meadows                 | 1942P  | 33   | 35N  | 24E   | 4500  | Green Lake                  | 21842   | 31   | 12N  | 13E   | 6000  | Easy Pass               | 21217A | 22   | 37N  | 8E    | 2200  | Thunder Basin        |
| Starvation Mtn.                | 1941a  | 15   | 35N  | 23E   | 6750  | Grouse Camp                 | 20812   | 34   | 21N  | 19E   | 4123  | Jasper Pass             | 21216A | 17   | 38N  | 11E   | 5400  | Thunder Basin        |
| Touts Coulee                   | 1946   | 30   | 39N  | 25E   | 2845  | High Creek                  | 20813   | 29   | 21N  | 19E   | 2930  | Komo Kulshan            | 21213m | 11   | 13N  | 11E   | 5900  | Thunder Basin        |
| Billy Goat Pass                | 2041a  | 10   | 38N  | 20E   | 6400  | Joe Lake                    | 21846a  | 22   | 23N  | 12E   | 4624  | Marren Lake             | 21219A | 23   | 38N  | 8E    | 3600  | Thunder Basin        |
| Dollar Watch                   | 2042a  | 8    | 39N  | 20E   | 7000  | Lake CIE Elum               | 21848m  | 15   | 20N  | 14E   | 2200  | Mount 81um              | 21218A | 27   | 38N  | 10E   | 5800  | Thunder Basin        |
| Harts Pass                     | 2045a  | 7    | 37N  | 23E   | 6500  | Manastash                   | 21847a  | 20   | 17N  | 16E   | 3935  | Rocky Creek             | 21218A | 20   | 37N  | 8E    | 2100  | Thunder Basin        |
| Horseshoe Basin                | 1945   | 15   | 40N  | 23E   | 7000  | Morse Lake                  | 20217   | 6    | 16N  | 11E   | 5400  | Schreibers Meadow       | 21210A | 18   | 37N  | 9E    | 3400  | Thunder Basin        |
| Lumpy Creek                    | 2041a  | 18   | 31N  | 16E   | 2200  | Nanum                       | 20813   | 4    | 20N  | 19E   | 3875  | S. F. Thunder Creek     | 21210A | 20   | 37N  | 8E    | 3400  | Thunder Basin        |
| Park Creek Ridge               | 2041a  | 7    | 34N  | 16E   | 4600  | Trail Creek                 | 20814   | 20   | 19N  | 20E   | 3360  | Sulphur Creek           | 21210A | 22   | 37N  | 8E    | 3400  | Thunder Basin        |
| Park Creek Ridge               | 2041a  | 3    | 34N  | 17E   | 3750  | Tumel Avenue                | 21881A  | 13   | 19N  | 11E   | 2450  | Three Mile Creek        | 21210A | 18   | 36N  | 9E    | 4500  | Thunder Basin        |
| Petersons                      | 2041a  | 21   | 35N  | 17L   | 1780  | Van Lipp Pass               | 20826a  | 16   | 23N  | 15E   | 5925  | Watson Lakes            | 21210A | 25   | 37N  | 9E    | 4500  | Thunder Basin        |
| Rainy Pass                     | 2043a  | 32   | 31N  | 20E   | 6300  | Walters Flat                | 20815   | 22   | 20N  | 19E   | 3360  | White River Campground  | 21210A | 7    | 40N  | 7E    | 4400  | Thunder Basin        |
| Safety Harbor                  | 2043a  | 34   | 33N  | 18L   | 6500  | Watson Lake                 | 21849a  | 12   | 23N  | 13E   | 5024  | Wald Mountain           | 21210A | 20   | 36N  | 9E    | 2200  | Thunder Basin        |
| War Creek Pass                 | 2043a  | 10   | 28N  | 18L   | 5425  | White Pass (East Side)      | 21849a  | 12   | 13N  | 11E   | 4500  | Wapato Lake             | 21210A | 22   | 37N  | 8E    | 1600  | Thunder Basin        |
| Blue Greek G.S.                | 2042a  | 12   | 31N  | 15E   | 6500  | White Pass (Leach Lake)     | 21C27   | 1    | 13N  | 11E   | 4500  | Wastell Creek           | 21210A | 18   | 36N  | 9E    | 1600  | Thunder Basin        |
| Brief                          | 2042a  | 3    | 31N  | 16E   | 3540  | Corral Pass                 | 21C35   | 13   | 15N  | 13E   | 5024  | White River             | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| Int'l Meadows                  | 2043a  | 28   | 31N  | 16E   | 5275  | Corral Pass                 | 21C35   | 29   | 15N  | 13E   | 5024  | White River             | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| Int'l River Trail              | 2043a  | 2    | 31N  | 17L   | 5150  | Green River                 | 21B24   | 18   | 20N  | 11E   | 1800  | Wing Lake               | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| Joint Mts Ridge                | 2047a  | 15   | 28N  | 19L   | 7000  | Airstrip                    | 21B25P  | 21   | 21N  | 9E    | 5200  | Wing Lake               | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| Lope Ridge                     | 2048a  | 22   | 29N  | 18L   | 1310  | Charley Creek               | 21B25P  | 27   | 21N  | 8E    | 1200  | Wing Lake               | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| Pope Ridge                     | 2042a  | 22   | 29N  | 18L   | 1300  | Cougar Mountain             | 21B28   | 14   | 20N  | 8E    | 2900  | Wing Lake               | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| Pope Ridge Snow Pillow         | 2042a  | 34   | 30N  | 18L   | 6100  | Grass Mountain No. 2        | 21B28   | 12   | 20N  | 8E    | 2900  | Wing Lake               | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| Pugh Ridge                     | 2042a  | 34   | 30N  | 18L   | 6100  | Lester Creek                | 21B29   | 36   | 20N  | 10E   | 3100  | Wing Lake               | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| Shady Pass                     | 2043a  | 20   | 35N  | 19L   | 6200  | Lynn Lake                   | 21B30   | 21   | 20N  | 8E    | 4000  | Wing Lake               | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| Snow Brushy Creek              | 2043a  | 21   | 30N  | 17L   | 3550  | Sawmill II Ridge            | 21B31   | 5    | 19N  | 11E   | 4700  | Wing Lake               | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| Tommy Creek                    | 2042a  | 10   | 28N  | 18L   | 5300  | Snowshoe Butte              | 21B33P  | 14   | 20N  | 11E   | 5000  | Wing Lake               | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| White Salmon River             | 21C15  | 25   | 9N   | 12L   | 3000  | Stampede Pass               | 21B30   | 18   | 19N  | 11E   | 4100  | Wing Lake               | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| White Salmon River             | 21C12  | 35   | 7N   | 8L    | 4000  | Twin Camp                   | 21B30   | 18   | 19N  | 11E   | 4100  | Wing Lake               | 21210A | 17   | 39N  | 9E    | 4300  | Thunder Basin        |
| <b>LOWER COLUMBIA DRAINAGE</b> |        |      |      |       |       |                             |         |      |      |       |       |                         |        |      |      |       |       |                      |
| Asotin Creek                   | 17C4   | 9    | 8N   | 40E   | 5700  | Cedar River                 | 21B25   | 10   | 21N  | 10E   | 2390  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| Mill Creek                     | 17C3m  | 2    | 9N   | 40E   | 3370  | Morse Creek                 | 21B21   | 30   | 22N  | 10E   | 3500  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| Couse                          | 17C3m  | 2    | 9N   | 40E   | 3370  | City Cabin                  | 21B21   | 30   | 22N  | 10E   | 3500  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| Homestead                      | 17C1   | 11   | 9N   | 40E   | 1030  | Mt. Gardner Aux.            | 21B22   | 31   | 22N  | 10E   | 2500  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| Martin Springs (Helmers Sm)    | 17C2m  | 23   | 9N   | 40E   | 1400  | Mt. Lindsay                 | 21B15   | 8    | 22N  | 9E    | 3000  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| Shady Pass                     | 20A37  | 20   | 35N  | 19L   | 6200  | Mt. Washington              | 21B15   | 8    | 22N  | 9E    | 3000  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| Snow Brushy Creek              | 20A35a | 21   | 30N  | 17L   | 3550  | Mt. Washington              | 21B15   | 8    | 22N  | 9E    | 3000  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| Tommy Creek                    | 20B21a | 10   | 28N  | 18L   | 5300  | Rex                         | 21B17   | 11   | 21N  | 9E    | 2300  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| White Salmon River             | 21C12  | 25   | 8N   | 7L    | 4000  | South Fork Cedar            | 21B20   | 1    | 21N  | 10E   | 5400  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| White Salmon River             | 21C12  | 35   | 7N   | 8L    | 4000  | Tinkham Creek               | 21B20   | 1    | 21N  | 10E   | 5400  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| <b>SNOQUALMIE RIVER</b>        |        |      |      |       |       |                             |         |      |      |       |       |                         |        |      |      |       |       |                      |
| Alpine Meadow                  | 21B18  | 51   | 27N  | 9E    | 3500  | Snoqualmie River            | 21B18   | 51   | 27N  | 9E    | 3500  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| Ovaline Meadow                 | 21B18  | 19   | 27N  | 11E   | 3625  | Deer Park                   | 21B18   | 26   | 26N  | 9E    | 3900  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| South Fork Hol                 | 21B18  | 26   | 26N  | 9E    | 1900  | Deer Park                   | 21B18   | 26   | 26N  | 9E    | 1900  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| Lake Elizabeth                 | 21B19  | 53   | 26N  | 10E   | 2900  | Deer Park                   | 2384    | 1    | 28N  | 5W    | 5200  | Deer Park               | 2384   | 1    | 28N  | 5W    | 5200  | Dungeness River      |
| Skokomish River                | 21C18a | 53   | 26N  | 10E   | 2900  | Lake Elizabeth              | 21B19   | 53   | 26N  | 10E   | 2900  | Lake Elizabeth          | 21B19  | 53   | 26N  | 10E   | 2900  | Lake Elizabeth       |

## WATER SUPPLY OUTLOOK

State of Washington

May 1, 1974

### SNOW COVER

The snow packs in the state and tributary basins all indicate well above normal snow cover on the ground as of May 1. The range is from 19% above normal on the Olympic Peninsula to 234% above normal in the Methow. The one snow course in the Klickitat Basin has a snow pack that is 311% greater than average. When comparing these snow packs to that which occurred during the dry year of 1973, the numbers are somewhat ludicrous, for example, in the Lewis River the snow pack is 676% greater than last year and in the Wenatchee 665% greater. The snow pack usually reaches its maximum on or about April 1 except at the very high snow courses in the Cascade Mountains, but this year just about all snow courses in the high middle range and low high range increased water equivalent from that measured on the first of April. This was due, in part, to the above normal precipitation and the cool days, resulting in little melt of the snow pack. The lower elevation snows, of course, are gone and this will help in the overall seriousness of the potential flood danger. There is more area at lower elevations than at higher elevations and this low elevation snow tends to be more flashy than that which is in the upper reaches.



## RESERVOIRS

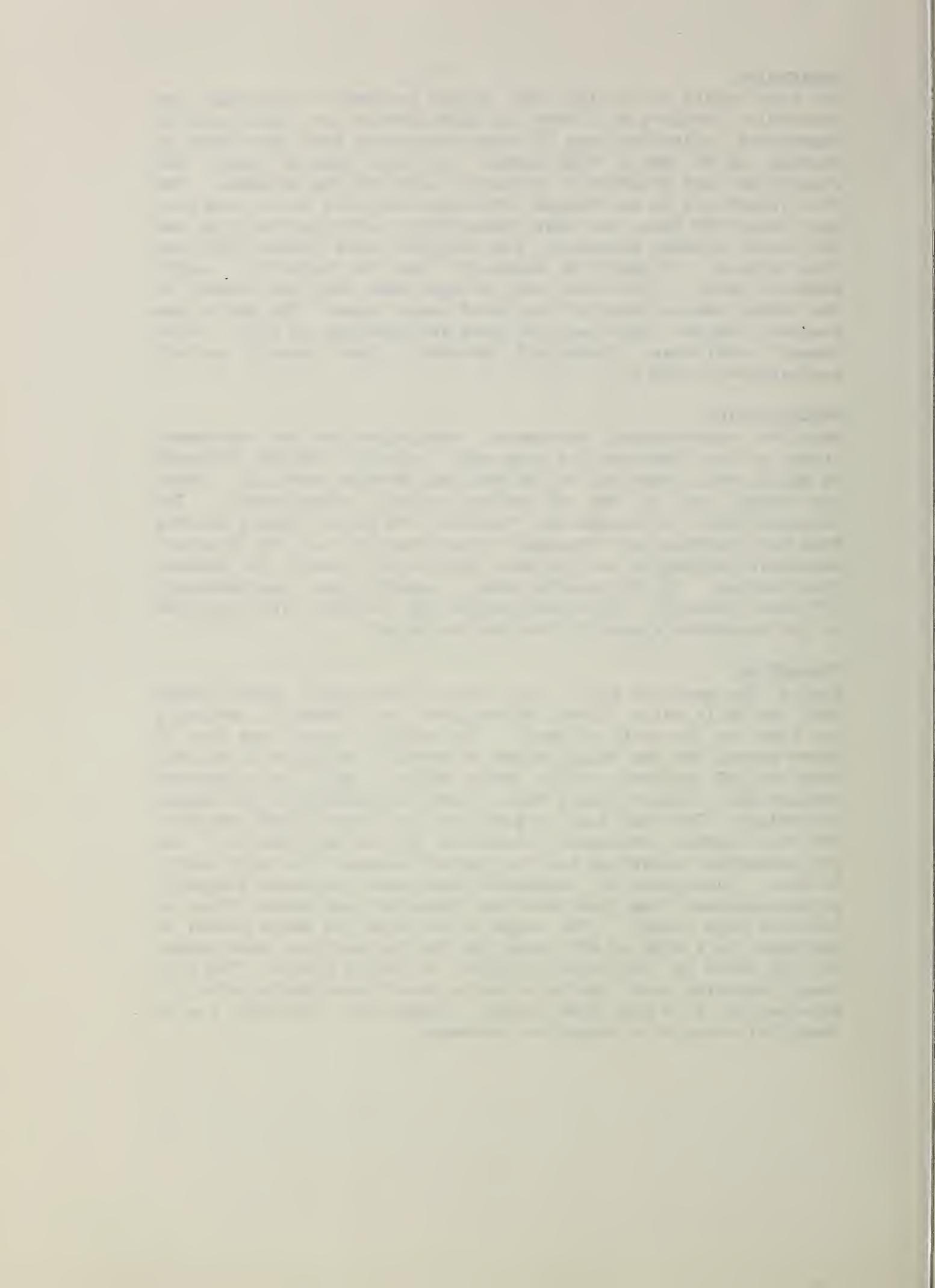
The high runoff of the last two months has made it difficult for reservoir managers to lower the lake levels on multi-purpose reservoirs, therefore many of these reservoirs have more water in storage as of May 1 than normal for this time of year. The exceptions are Franklin D. Roosevelt Lake and Chelan Lake. The five reservoirs in the Yakima Drainage have less water than normal, about 15% less, and small reservoirs, with little or no use for flood control purposes, are slightly above normal for this time of year. Franklin D. Roosevelt Lake is below its usable capacity level. This has been brought down for the removal of the coffer dam in front of the third power house. The dam is now removed and the fore bay and lake are starting to fill. With normal conditions, Franklin D. Roosevelt Lake should be full approximately July 1.

## PRECIPITATION

Only the northeastern section of Washington and the northwest slopes of the Cascades had subnormal rainfall during the month of April, this reported by the National Weather Service. These two areas are 9% and 4% below normal, respectively. The Columbia River in Canada had rainfall 27% above normal and the Pend Oreille-Spokane Drainage precipitation was 16% greater. Southwest Washington had the most rain of all areas - 53% greater than average. In the central area, rainfall was approximately 25% above average. This same percentage rainfall also occurred on the southwest slopes of the Cascade Range.

## STREAMFLOW

During the month of April, all rivers flowed well above normal with the Walla Walla River, as measured near Touchet, setting a new high for the month of April. The range of runoff was from 7% above normal for the Skagit River as measured at Concrete to this high of 119% greater on the Walla Walla. Most low elevation streams had a higher runoff than those originating at the higher elevations. This was due, in part, to the above normal rainfall and the current saturated situation of the soil mantle. Any precipitation occurring has to run off because the soil mantle is full. Forecasts of streamflow have been increased slightly, percentagewise, from that which was reported last month; this, in spite of high runoff. The range is now from 15% above normal at Birchbank to a high of 62% above for the Yakima River near Parker and 65% above on the Colville River at Kettle Falls. The Mill Creek, draining into the Walla Walla River near Walla Walla, is expected to flow 66% above normal. Numerical forecasts can be found following this narrative statement.



# STREAMFLOW FORECASTS - MAY 1974

The following summarized runoff forecasts are based principally on mountain snow-cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts. Streamflow figures for 1973 are preliminary and subject to revision.

| Basin, Stream<br>and<br>Station | Forecast<br>Runoff<br>1974 | Seasonal Streamflow in Thousands of Acre-Feet |                         |      |      |      |  | 15-Yr.<br>Average<br>58-72 |  |
|---------------------------------|----------------------------|---|-------------------------|------|------|------|--|----------------------------|--|
|                                 |                            | %<br>15-Yr.<br>Avg.                           | Fore-<br>cast<br>period | 1973 | 1972 | 1971 |  |                            |  |
|                                 |                            | May-June                                      |                         |      |      |      |  |                            |  |

## COLUMBIA BASIN

### Columbia River System

|  |                          |                   |                                  |                         |                           |                          |                         |
|--|--------------------------|-------------------|----------------------------------|-------------------------|---------------------------|--------------------------|-------------------------|
| Columbia River<br>at Birchbank <u>1/</u>       | 49800<br>39500<br>29400  | 115<br>114<br>119 | May-Sept<br>May-July<br>May-June | 32819<br>25884<br>18223 | 53649<br>43659<br>31436   | 45815<br>36572<br>26832  | 43514<br>34632<br>24633 |
| Columbia River<br>at Grand Coulee <u>1/</u>    | 77300<br>64100<br>50000  | 124<br>125<br>128 | May-Sept<br>May-July<br>May-June | 41905<br>34211<br>25885 | 77387<br>65326<br>49770   | 70587<br>59185<br>45787  | 61962<br>51473<br>39153 |
| Columbia River<br>bl Rock Island Dam <u>1/</u> | 84800<br>70600<br>54400  | 125<br>124<br>126 | May-Sept<br>May-July<br>May-June | 45114<br>37164<br>27954 | 89947<br>76536<br>58145   | 77135<br>65272<br>50620  | 67934<br>56790<br>43202 |
| Columbia River<br>at The Dalles, Or <u>1/</u>  | 116000<br>98000<br>78600 | 130<br>128<br>131 | May-Sept<br>May-July<br>May-June | 57890<br>47028<br>36089 | 119696<br>102877<br>81356 | 111599<br>95796<br>76452 | 91599<br>76822<br>60087 |

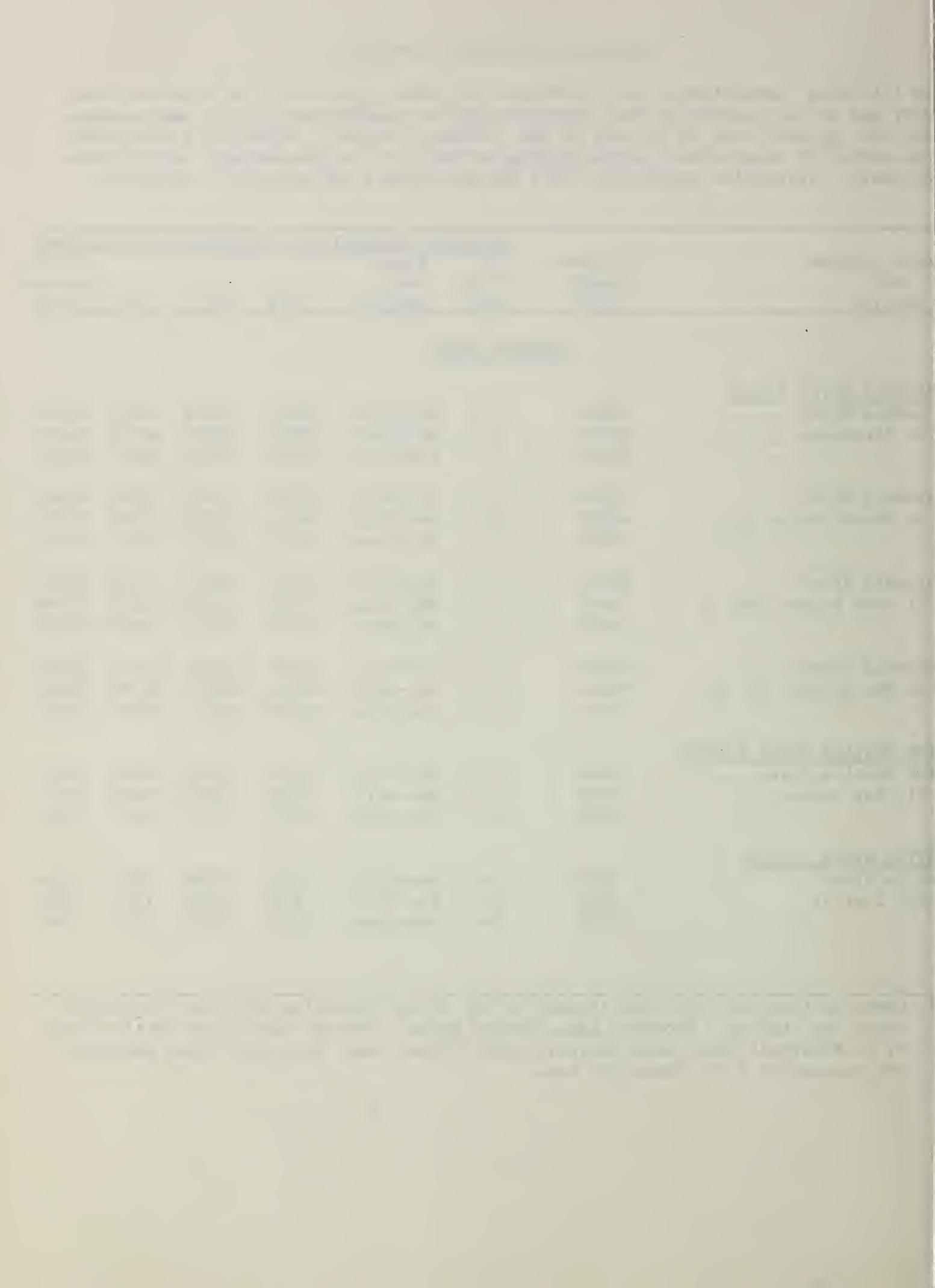
### PEND OREILLE RIVER SYSTEM

|                                      |                         |                   |                                  |                      |                         |                         |                         |
|--------------------------------------|-------------------------|-------------------|----------------------------------|----------------------|-------------------------|-------------------------|-------------------------|
| Pend Oreille River<br>bl. Box Canyon | 17800<br>16200<br>13400 | 130<br>130<br>127 | May-Sept<br>May-July<br>May-June | 6929<br>6338<br>5507 | 17909<br>16336<br>13725 | 16692<br>15402<br>12997 | 13737<br>12471<br>10561 |
|--------------------------------------|-------------------------|-------------------|----------------------------------|----------------------|-------------------------|-------------------------|-------------------------|

### KETTLE RIVER SYSTEM

|                             |                      |                   |                                  |                   |                      |                      |                      |
|-----------------------------|----------------------|-------------------|----------------------------------|-------------------|----------------------|----------------------|----------------------|
| Kettle River<br>nr. Laurier | 2330<br>2250<br>2020 | 144<br>147<br>146 | May-Sept<br>May-July<br>May-June | 983<br>956<br>887 | 2068<br>1984<br>1743 | 2020<br>1956<br>1707 | 1614<br>1534<br>1381 |
|-----------------------------|----------------------|-------------------|----------------------------------|-------------------|----------------------|----------------------|----------------------|

1/ Observed flow corrected for storage in any of the following reservoirs which are above the station: Kootenay Lake, Hungry Horse, Flathead Lake, Pend Oreille Lake, F. D. Roosevelt Lake, Lake Chelan, Coeur d'Alene Lake, Brownlee, Noxon Reservoir and pumpage at F. D. Roosevelt Lake.



| Basin, Stream<br>and<br>Station      | Forecast<br>Runoff<br>1974 | Seasonal Streamflow in Thousands of Acre-Feet |                                  |                   |                      |                      |                      | 15-Yr.<br>Average<br>58-72 |
|--------------------------------------|----------------------------|---|----------------------------------|-------------------|----------------------|----------------------|----------------------|----------------------------|
|                                      |                            | %<br>15-Yr.<br>Avg.                           | Fore-<br>cast<br>period          | 1973              | 1972                 | 1971                 |                      |                            |
|                                      |                            |   |                                  |                   |                      |                      |                      |                            |
| <u>Kettle River System (Cont.)</u>   |                            |   |                                  |                   |                      |                      |                      |                            |
| Colville River<br>at Kettle Falls    | 150<br>135<br>115          | 165<br>169<br>162                             | May-Sept<br>May-July<br>May-June | 32<br>29<br>27    | 75<br>65<br>56       | 108<br>96<br>84      | 91<br>80<br>71       |                            |
| <u>Spokane River System *</u>        |                            |   |                                  |                   |                      |                      |                      |                            |
| Spokane River<br>at Post Falls ID 2/ | 3250<br>3140<br>2900       | 162<br>163<br>161                             | May-Sept<br>May-July<br>May-June | 760<br>713<br>650 | 3100<br>2973<br>2742 | 2984<br>2840<br>2566 | 2010<br>1926<br>1800 |                            |
| <u>Okanogan River System</u>         |                            |   |                                  |                   |                      |                      |                      |                            |
| Similkameen River<br>nr. Nighthawk   | 2000<br>1860<br>1600       | 140<br>140<br>141                             | May-Sept<br>May-July<br>May-June | 673<br>629<br>554 | 3118<br>2949<br>2426 | 1865<br>1774<br>1511 | 1425<br>1333<br>1131 |                            |
| Okanogan River<br>nr. Tonasket       | 2350<br>2100<br>1750       | 148<br>145<br>144                             | May-Sept<br>May-July<br>May-June | 704<br>646<br>561 | 3603<br>3273<br>2646 | 2096<br>1948<br>1643 | 1587<br>1446<br>1213 |                            |
| <u>Methow River System</u>           |                            |   |                                  |                   |                      |                      |                      |                            |
| Methow River<br>nr. Pateros          | 1420<br>1280<br>1120       | 150<br>146<br>150                             | May-Sept<br>May-July<br>May-June | 466<br>430<br>370 | 1818<br>1678<br>1383 | 1263<br>1183<br>985  | 946<br>879<br>748    |                            |
| <u>Chelan River System</u>           |                            |   |                                  |                   |                      |                      |                      |                            |
| Chelan River<br>at Chelan 3/         | 1600<br>1420<br>1080       | 140<br>142<br>141                             | May-Sept<br>May-July<br>May-June | 702<br>605<br>469 | 1730<br>1483<br>1114 | 1456<br>1258<br>924  | 1140<br>999<br>767   |                            |
| Stehekin River<br>at Stehekin        | 1130<br>960<br>740         | 136<br>136<br>141                             | May-Sept<br>May-July<br>May-June | 490<br>396<br>301 | 1167<br>975<br>704   | 1044<br>878<br>608   | 830<br>702<br>526    |                            |
| Entiat<br>nr. Ardenvoix              | 280<br>260<br>210          | 126<br>127<br>127                             | May-Sept<br>May-July<br>May-June | -<br>-<br>-       | 372<br>335<br>257    | 298<br>268<br>197    | 223<br>204<br>165    |                            |

\* Forecasts made by Jack A. Wilson, Soil Conservation Service, Boise, Idaho.

2/ Observed flow corrected for storage in Coeur d'Alene Lake and diversion by Rathdrum Prairie Canal.

3/ Observed flow corrected for storage in Lake Chelan.



| Basin, Stream<br>and<br>Station        | Forecast<br>Runoff<br>1974 | Seasonal Streamflow in Thousands of Acre-Feet |                         |      |      |      |      | 15-Yr.<br>Average<br>58-72 |
|--|----------------------------|---|-------------------------|------|------|------|------|----------------------------|
|  |                            | %<br>15-Yr.<br>Avg.                           | Fore-<br>cast<br>period | 1973 | 1972 | 1971 |      |                            |
|  |                            |   |                         |      |      |      |      |                            |
| <u>Wenatchee River System</u>          |                            |   |                         |      |      |      |      |                            |
| Wenatchee River<br>at Plain            | 1690                       | 145   | May-Sept                | 689  | 1764 | 1544 | 1165 |                            |
|  | 1510                       | 145   | May-July                | 608  | 1523 | 1355 | 1040 |                            |
|  | 1200                       | 148   | May-June                | 488  | 1109 | 952  | 809  |                            |
| Wenatchee River<br>at Peshastin        | 2330                       | 147   | May-Sept                | 903  | 2538 | 2104 | 1583 |                            |
|  | 2070                       | 145   | May-July                | 808  | 2216 | 1862 | 1426 |                            |
|  | 1620                       | 145   | May-June                | 656  | 1634 | 1318 | 1121 |                            |
| Stemilt Basin<br>nr. Wenatchee         | 150*                       | 109   | May-Sept                | -    | 145* | 148* | 138* |                            |
| <u>Yakima River System</u>             |                            |   |                         |      |      |      |      |                            |
| Yakima River<br>nr. Martin <u>4/</u>   | 175                        | 151   | May-Sept                | 64   | 196  | 176  | 116  |                            |
|  | 160                        | 154   | May-July                | 58   | 174  | 163  | 104  |                            |
|  | 134                        | 151   | May-June                | 51   | 143  | 124  | 89   |                            |
| Yakima River<br>at Cle Elum <u>5/</u>  | 1200                       | 151   | May-Sept                | 441  | 1328 | 1194 | 794  |                            |
|  | 1070                       | 152   | May-July                | 376  | 1188 | 1073 | 706  |                            |
|  | 910                        | 153   | May-June                | 319  | 969  | 828  | 593  |                            |
| Yakima River<br>nr. Parker <u>6/</u>   | 2160                       | 162   | May-Sept                | 415  | 2732 | 2543 | 1328 |                            |
|  | 2150                       | 165   | May-July                | 423  | 2572 | 2290 | 1298 |                            |
|  | 1850                       | 157   | May-June                | 432  | 2195 | 1823 | 1178 |                            |
| Kachess River<br>nr. Easton <u>7/</u>  | 158                        | 158   | May-Sept                | 52   | 174  | 147  | 100  |                            |
|  | 151                        | 162   | May-July                | 48   | 161  | 148  | 93   |                            |
|  | 128                        | 158   | May-June                | 44   | 132  | 115  | 81   |                            |
| Cle Elum River<br>nr. Roslyn <u>8/</u> | 610                        | 148   | May-Sept                | 233  | 679  | 579  | 410  |                            |
|  | 560                        | 151   | May-July                | 206  | 603  | 520  | 371  |                            |
|  | 460                        | 150   | May-June                | 172  | 469  | 385  | 306  |                            |

\* Thousands of Miners' Inches.

4/ Observed flow corrected for storage in Lake Keechelus.

5/ Observed flow corrected for storage in Keechelus, Kachess and Cle Elum Lakes and diversion by Kittitas Canal.

6/ Observed flow corrected for storage in Keechelus, Kachess, Cle Elum, Bumping and Rimrock Lakes and diversions by Roza, Union Gap, New Reservation, Old Reservation and Sunnyside Canals.

7/ Observed flow corrected for storage in Lake Kachess.

8/ Observed flow corrected for storage in Lake Cle Elum.



| Basin, Stream<br>and<br>Station          | Forecast<br>Runoff<br>1974 | Seasonal Streamflow in Thousands of Acre-Feet |                                  |                   |                      |                      |                            |
|--|----------------------------|---|----------------------------------|-------------------|----------------------|----------------------|----------------------------|
|  |                            | %<br>15-Yr.<br>Avg.                           | Fore-<br>cast<br>period          | 1973              | 1972                 | 1971                 | 15-Yr.<br>Average<br>58-72 |
| <u>Yakima River System (Cont.)</u>       |                            |   |                                  |                   |                      |                      |                            |
| Bumping River<br>nr. Nile <u>9/</u>      | 203<br>186<br>151          | 157<br>158<br>157                             | May-Sept<br>May-July<br>May-June | 63<br>57<br>51    | 211<br>186<br>138    | 183<br>164<br>114    | 129<br>118<br>96           |
| American River<br>nr. Nile               | 175<br>162<br>125          | 156<br>157<br>147                             | May-Sept<br>May-July<br>May-June | 59<br>54<br>47    | 168<br>151<br>119    | 162<br>145<br>104    | 112<br>103<br>85           |
| Tieton River<br>at Tieton Dam <u>10/</u> | 340<br>280<br>210          | 159<br>157<br>151                             | May-Sept<br>May-July<br>May-June | 140<br>107<br>81  | 369<br>304<br>229    | 297<br>243<br>169    | 214<br>178<br>139          |
| Naches River<br>nr. Naches <u>11/</u>    | 1130<br>1030<br>850        | 151<br>153<br>152                             | May-Sept<br>May-July<br>May-June | 366<br>309<br>260 | 1313<br>1175<br>942  | 1038<br>937<br>722   | 748<br>669<br>557          |
| Ahtanum Creek<br>nr. Tampico <u>12/</u>  | 53<br>48<br>42             | 136<br>137<br>140                             | May-Sept<br>May-July<br>May-June | 16<br>14<br>12    | 65<br>59<br>49       | 55<br>49<br>40       | 39<br>35<br>30             |
| <u>Lower Columbia River System</u>       |                            |   |                                  |                   |                      |                      |                            |
| Mill Creek<br>nr. Walla Walla            | 30<br>25<br>22             | 166<br>178<br>183                             | May-Sept<br>May-July<br>May-June | 13<br>9<br>6      | 24<br>19<br>15       | 21<br>17<br>15       | 18<br>14<br>12             |
| Lewis River<br>at Ariel <u>13/</u>       | 1400<br>1220<br>1000       | 150<br>159<br>155                             | May-Sept<br>May-July<br>May-June | 570<br>440<br>354 | 1199<br>993<br>837   | 1443<br>1222<br>958  | 933<br>765<br>643          |
| Cowlitz River<br>Blw. Mayfield Dam       | 2390<br>2090<br>1660       | 145<br>150<br>148                             | May-Sept<br>May-July<br>May-June | -<br>-<br>-       | 2526<br>2149<br>1679 | 2383<br>2045<br>1517 | 1650<br>1391<br>1123       |

9/ Observed flow corrected for storage in Bumping Lake.

10/ Observed flow corrected for storage in Rimrock Lake.

11/ Observed flow corrected for storage in Bumping and Rimrock Lakes and diversions by Tieton, Selah Valley, Wapatox Canals and City of Yakima.

12/ Observed flow of North and South Forks (combined)

13/ Observed flow corrected for storage in Lake Merwin, Yale and Swift Reservoirs.



| Basin, Stream<br>and<br>Station | Forecast<br>Runoff<br>1974 | Seasonal Streamflow in Thousands of Acre-Feet |                         |      |      |      |       | 15-Yr.<br>Average<br>58-72 |
|---------------------------------|----------------------------|---|-------------------------|------|------|------|-------|----------------------------|
|                                 |                            | %<br>15-Yr.<br>Avg.                           | Fore-<br>cast<br>period | 1973 |      | 1972 | 1971  |                            |
|                                 |                            |   |                         | 1973 | 1972 | 1971 | 58-72 |                            |

Lower Columbia River System (Cont.)

Cowlitz River

|                           |      |     |          |      |      |      |      |
|---------------------------|------|-----|----------|------|------|------|------|
| at Castle Rock <u>14/</u> | 3110 | 148 | May-Sept | 1224 | 3036 | 3043 | 2093 |
|                           | 2700 | 155 | May-July | 1007 | 2548 | 2587 | 1741 |
|                           | 2140 | 152 | May-June | 831  | 1999 | 1918 | 1407 |

OLYMPIC PENINSULA

Dungeness River System

|                               |     |     |          |   |     |     |     |
|-------------------------------|-----|-----|----------|---|-----|-----|-----|
| Dungeness River<br>nr. Sequim | 170 | 116 | May-Sept | - | 183 | 178 | 147 |
|                               | 137 | 115 | May-July | - | 146 | 136 | 119 |
|                               | 105 | 124 | May-June | - | 102 | 88  | 85  |

PUGET SOUND

Skagit River System

|  |      |     |         |   |      |      |      |
|--|------|-----|---------|---|------|------|------|
| Skagit River<br>at Newhalem <u>15/</u> | 2750 | 135 | May-Aug | - | 3162 | 2574 | 2037 |
|--|------|-----|---------|---|------|------|------|

Cedar River System

|                               |     |     |          |   |     |     |    |
|-------------------------------|-----|-----|----------|---|-----|-----|----|
| Cedar River<br>at Cedar Falls | 125 | 137 | Apr-Sept | - | 122 | 120 | 91 |
|-------------------------------|-----|-----|----------|---|-----|-----|----|

Green River System

|                                       |     |     |          |     |     |     |     |
|---------------------------------------|-----|-----|----------|-----|-----|-----|-----|
| Green River<br>Blw. Howard Hansen Dam | 305 | 139 | May-Sept | 120 | 342 | 313 | 220 |
|---------------------------------------|-----|-----|----------|-----|-----|-----|-----|

14/ Observed flow corrected for storage in Mayfield Reservoir.

15/ Observed flow corrected for storage in Diablo, Ross, and Gorge Reservoirs.



**COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS**

The following tabulation of Washington stream basins presents the water content of the snow about May 1, 1974 as percent of the same date in 1973 and 1972 and average of record

| Tributary Basin          | No. of Courses<br>Average | 1974 Snow Water Expressed as percent of |      |              |
|--------------------------|---------------------------|---|------|--------------|
|                          |                           | 1973                                    | 1972 | 1958-72 Avg. |
|                          |                           | <u>UPPER COLUMBIA BASIN</u>             |      |              |
| Pend Oreille             | 15                        | 248                                     | 105  | 148          |
| Kettle                   | 11                        | 192                                     | 103  | 137          |
| Spokane                  | 9                         | 378                                     | 85   | 138          |
| Okanogan                 | 32                        | 235                                     | 92   | 176          |
| Methow                   | 5                         | 303                                     | 123  | 334          |
| Chelan                   | 2                         | 226                                     | 90   | 148          |
| Entiat                   | 8                         | 305                                     | 105  | 172          |
| Wenatchee                | 8                         | 765                                     | 77   | 184          |
| Yakima                   | 13                        | 484                                     | 98   | 217          |
| <u>LOWER COLUMBIA</u>    |                           |   |      |              |
| Mill Creek               | 1                         | 755                                     | 155  | 280          |
| Klickitat                | 1                         | -                                       | -    | 411          |
| White Salmon             | 2                         | 432                                     | 109  | 169          |
| Lewis                    | 16                        | 776                                     | 113  | 187          |
| Cowlitz                  | 4                         | 370                                     | 101  | 166          |
| <u>PUGET SOUND</u>       |                           |   |      |              |
| Nisqually                | 4                         | 296                                     | 85   | -            |
| White                    | 1                         | 256                                     | 99   | -            |
| Green                    | 3                         | 258                                     | 113  | 143          |
| Snoqualmie               | 1                         | 503                                     | 112  | 188          |
| Skykomish                | 2                         | 376                                     | 98   | 148          |
| Skagit                   | 14                        | 361                                     | 85   | 147          |
| Nooksack                 | 1                         | 254                                     | 132  | -            |
| <u>OLYMPIC PENINSULA</u> |                           |   |      |              |
| Skokomish                | 3                         | 202                                     | 112  | -            |
| Elwha                    | 1                         | 232                                     | 93   | 119          |

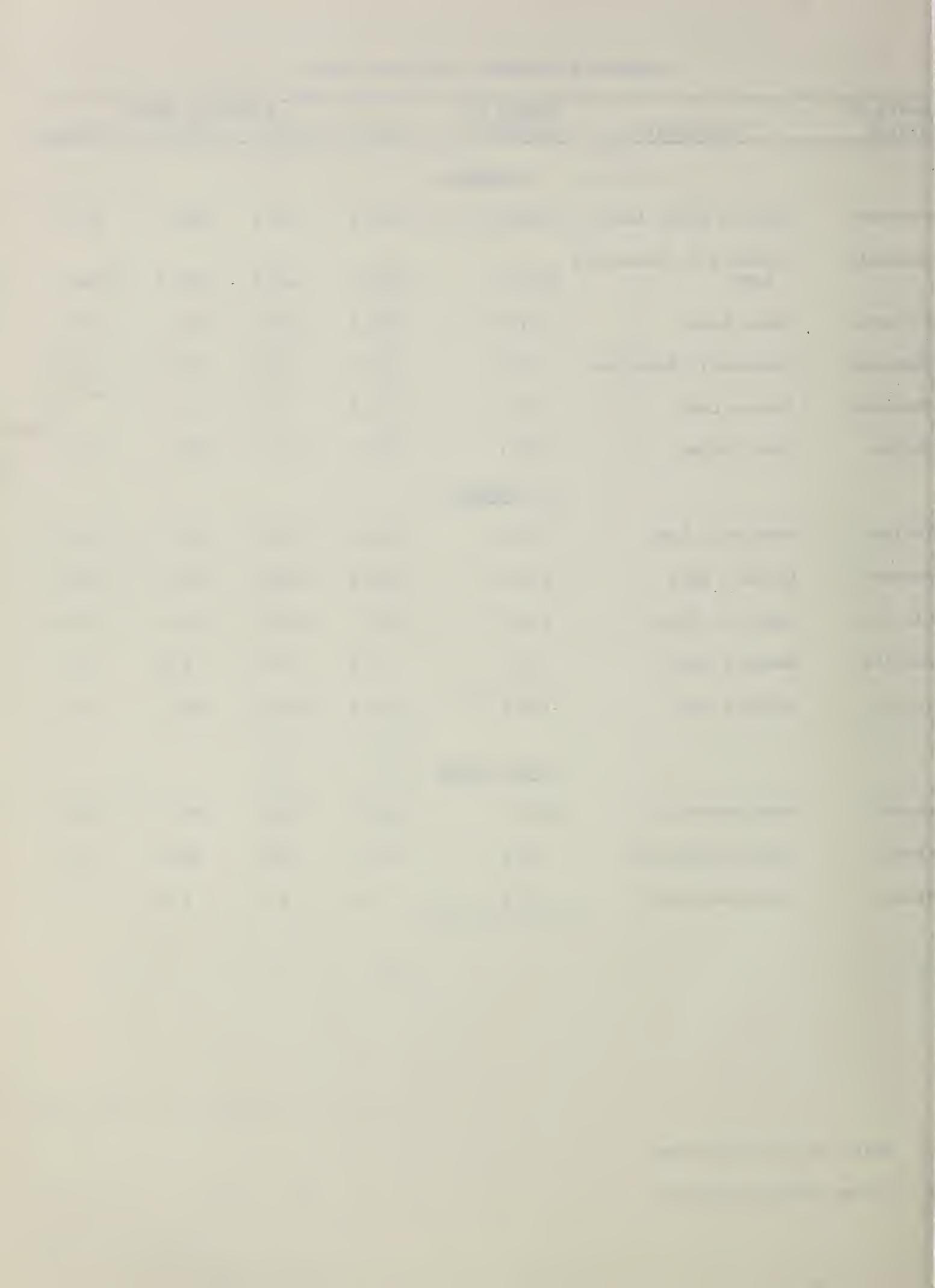


## RESERVOIR STORAGE - 1000 Acre Feet

| BASIN OR<br>STREAM | RESERVOIR                     | USABLE 1/<br>CAPACITY | Measured (May) |       |       |        | Normal* |
|--------------------|-------------------------------|-----------------------|----------------|-------|-------|--------|---------|
|                    |                               |                       | 1974           | 1973  | 1972  |        |         |
| <u>COLUMBIA</u>    |                               |                       |                |       |       |        |         |
| Spokane            | Coeur d'Alene Lake            | 225.1                 | 419.1          | 116.1 | 208.7 | 253.2  |         |
| Columbia           | Franklin D. Roosevelt<br>Lake | 5232.0                | -1948.0        | -42.5 | 497.3 | 1654.6 |         |
| Columbia           | Banks Lake                    | 761.8                 | 548.2          | 319.0 | 213.2 | 457.7  |         |
| Okanogan           | Conconully Reservoir          | 13.0                  | 10.1           | 11.2  | 10.6  | 11.2   |         |
| Okanogan           | Salmon Lake                   | 10.5                  | 9.9            | 9.9   | 9.5   | 7.8    |         |
| Chelan             | Lake Chelan                   | 676.1                 | 188.5          | 195.2 | 205.1 | 225.1  |         |
| <u>YAKIMA</u>      |                               |                       |                |       |       |        |         |
| Yakima             | Keechelus Lake                | 157.8                 | 116.5          | 127.0 | 106.1 | 121.2  |         |
| Kachess            | Kachess Lake                  | 239.0                 | 149.8          | 188.4 | 161.2 | 199.2  |         |
| Cle Elum           | Lake Cle Elum                 | 436.9                 | 249.7          | 319.0 | 171.6 | 310.9  |         |
| Bumping            | Bumping Lake                  | 33.7                  | 8.4            | 16.8  | 6.4   | 16.1   |         |
| Tieton             | Rimrock Lake                  | 198.0                 | 144.3          | 131.5 | 64.5  | 146.9  |         |
| <u>PUGET SOUND</u> |                               |                       |                |       |       |        |         |
| Skagit             | Ross Reservoir                | 1202.0                | 700.2          | 722.2 | 768.7 | 368.5  |         |
| Skagit             | Diablo Reservoir              | 90.6                  | 85.7           | 88.4  | 83.4  | 85.7   |         |
| Skagit             | Gorge Reservoir               | 9.8                   | 7.9            | 8.4   | 8.4   | -      |         |

1/ Based on Active Storage

\* 15-year average 1958-72



## SOIL MOISTURE - MAY

| Drainage Basin<br>and<br>Station | Number | Elev. | Depth | Profile | Inches<br>Total<br>Capacity | Soil Moisture Content |      |      |
|----------------------------------|--------|-------|-------|---------|-----------------------------|-----------------------|------|------|
|                                  |        |       |       |         |                             | 1974                  | 1973 | 1972 |

OKANOGAN

|                |       |      |    |  |     |      |     |     |
|----------------|-------|------|----|--|-----|------|-----|-----|
| Salmon Meadows | 19A2M | 4500 | 48 |  | 5.4 | 3.8  | 3.7 | 3.8 |
| Trout Creek    | 3-M   | 3600 | 48 |  | 7.3 | Late | 3.6 | 5.6 |

YAKIMA

|               |        |      |    |  |      |     |     |     |
|---------------|--------|------|----|--|------|-----|-----|-----|
| Domery Flat   | 21B20m | 2200 | 48 |  | 6.9  | 4.8 | 4.8 | 4.8 |
| Lake Cle Elum | 21B14M | 2200 | 48 |  | 12.8 | 9.1 | 9.1 | 9.1 |

WALLA WALLA

|         |       |      |    |  |      |     |     |      |
|---------|-------|------|----|--|------|-----|-----|------|
| Couse   | 17C3m | 3650 | 48 |  | 11.1 | N/M | 7.4 | 10.5 |
| Helmers | 17C2M | 4400 | 48 |  | 12.0 | N/M | 9.9 | 10.7 |

WENATCHEE

|               |       |      |    |  |      |      |     |      |
|---------------|-------|------|----|--|------|------|-----|------|
| Upper Wheeler | 20B7M | 4400 | 48 |  | 12.7 | 13.0 | 9.2 | 12.2 |
|---------------|-------|------|----|--|------|------|-----|------|

## FALL SOIL MOISTURE

| Drainage Basin<br>and<br>Station | Number | Elev. | Depth | Profile | Inches<br>Total<br>Capacity | Soil Moisture Content |      |      |
|----------------------------------|--------|-------|-------|---------|-----------------------------|-----------------------|------|------|
|                                  |        |       |       |         |                             | 1973                  | 1972 | 1971 |

OKANOGAN

|                |        |      |    |  |     |     |     |     |
|----------------|--------|------|----|--|-----|-----|-----|-----|
| Salmon Meadows | 19A02M | 4500 | 48 |  | 5.4 | 2.6 | 2.8 | 2.7 |
| Trout Creek    | 3-M    | 3600 | 48 |  | 7.3 | 2.8 | 3.3 | 3.3 |

YAKIMA

|               |        |      |    |  |      |     |     |     |
|---------------|--------|------|----|--|------|-----|-----|-----|
| Domery Flat   | 21B20m | 2200 | 48 |  | 6.9  | 2.6 | 4.1 | 2.1 |
| Lake Cle Elum | 21B14M | 2200 | 48 |  | 12.8 | 6.1 | 8.7 | 7.1 |

WALLA WALLA

|         |       |      |    |  |      |     |     |     |
|---------|-------|------|----|--|------|-----|-----|-----|
| Couse   | 17C3m | 3650 | 48 |  | 11.1 | 5.6 | 6.0 | 6.2 |
| Helmers | 17C2M | 4400 | 48 |  | 12.0 | 7.6 | 7.7 | 8.2 |

WENATCHEE

|               |       |      |    |  |      |     |     |     |
|---------------|-------|------|----|--|------|-----|-----|-----|
| Upper Wheeler | 20B7M | 4400 | 48 |  | 12.7 | 6.0 | 5.7 | 6.5 |
|---------------|-------|------|----|--|------|-----|-----|-----|



## PRECIPITATION 1/

## Division Averages and Departures

| Drainage<br>Divisions    | FALL                 |                      |                                  |  | SPRING                 |           |
|--------------------------|----------------------|----------------------|----------------------------------|--|------------------------|-----------|
|                          | Sept-Oct<br>Observed | 1973 2/<br>Departure | Nov.-1973--Mar.-1974<br>Observed | Departure  | April-1974<br>Observed | Departure |
| Columbia in Canada       | 5.14                 | + 0.67               | 15.91                            | + 3.16   | 1.85                   | + 0.39    |
| Pend Oreille - Spokane   | 4.28                 | - 0.20               | 32.17                            | +13.42   | 2.67                   | + 0.37    |
| Northeastern Washington  | 3.36                 | - 0.58               | 17.93                            | + 6.82   | 1.31                   | - 0.14    |
| Southeastern Washington  | 3.71                 | + 0.48               | 20.99                            | + 7.52   | 3.10                   | + 1.07    |
| Central Washington       | 4.68                 | - 0.07               | 36.60                            | + 9.07   | 2.76                   | + 0.57    |
| North Central Washington | 3.44                 | + 1.82               | 9.48                             | + 2.76   | 1.11                   | + 0.22    |
| Northwest Slope Cascades | 11.53                | - 1.16               | 71.63                            | +19.40   | 6.13                   | - 0.24    |
| Southwest Slope Cascades | 9.69                 | + 1.01               | 57.29                            | +15.65   | 5.74                   | + 1.12    |
| Northeastern Washington  |                      |                      |                                  | - Lower Spokane, Colville, Sanpoil and Lower Kettle Drainages. |                        |           |
| Southeastern Washington  |                      |                      |                                  | - Touchet, Tucannon and Palouse Drainages.                     |                        |           |
| Central Washington       |                      |                      |                                  | - Yakima, Wenatchee and Chelan Drainages.                      |                        |           |
| North Central Washington |                      |                      |                                  | - Methow and Okanogan Drainages.                               |                        |           |
| Northwest Slope Cascades |                      |                      |                                  | - Puget Sound Drainages.                                       |                        |           |
| Southwest Slope Cascades |                      |                      |                                  | - Lower Columbia Drainages.                                    |                        |           |

1/ - Preliminary analysis by National Weather Service from data furnished by Meteorlogical Services of Canada and the National Weather Service

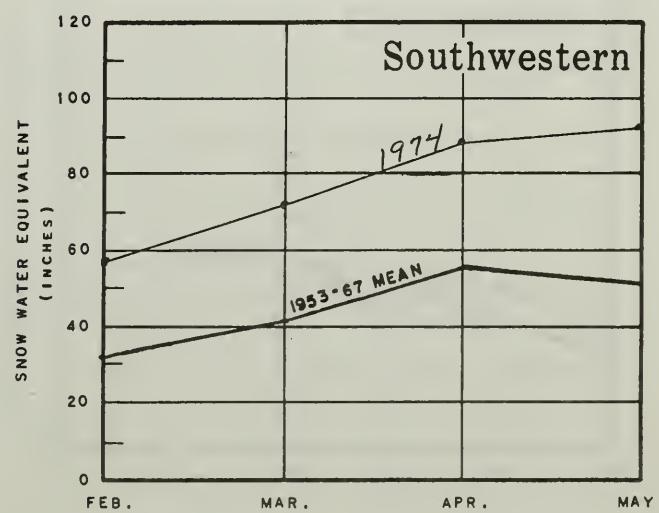
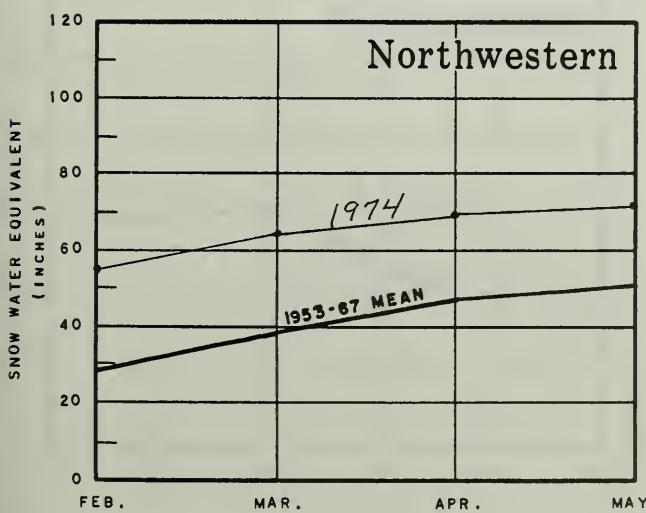
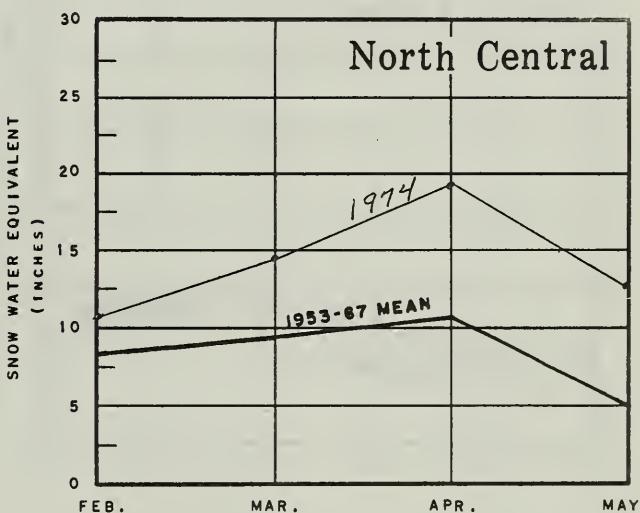
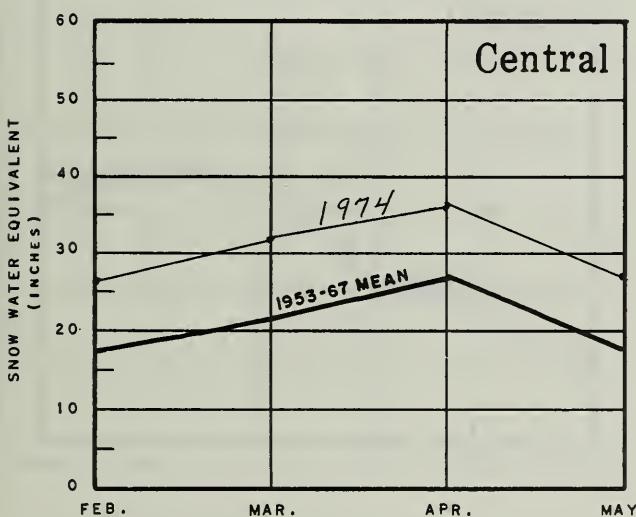
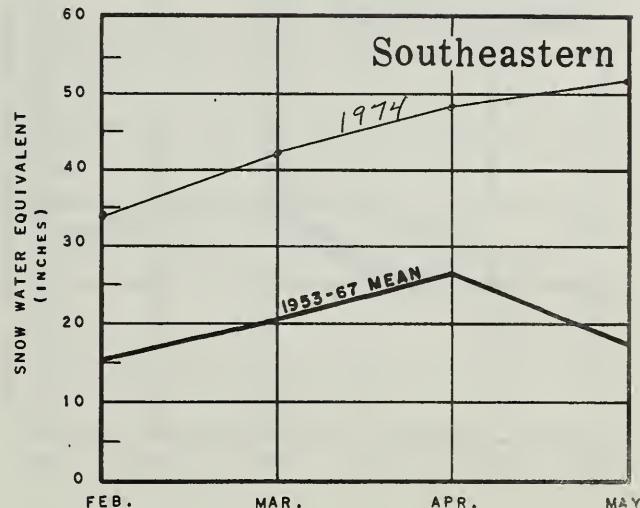
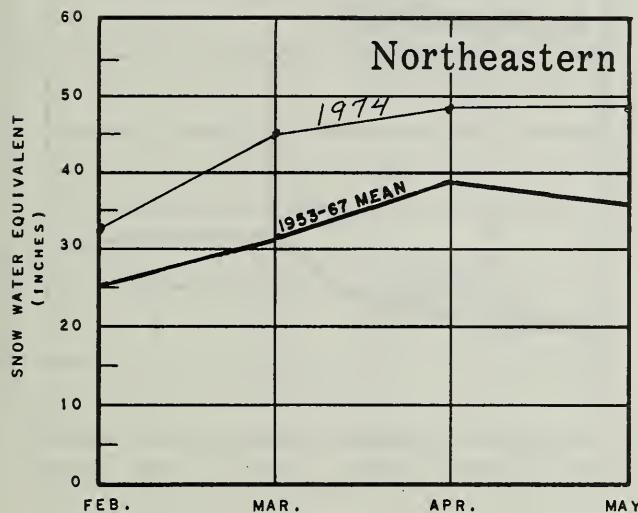
2/ - Departure from 15-year (1958-72) drainage division average.



# WASHINGTON SNOW COVER

1974

## DRAINAGE AREAS



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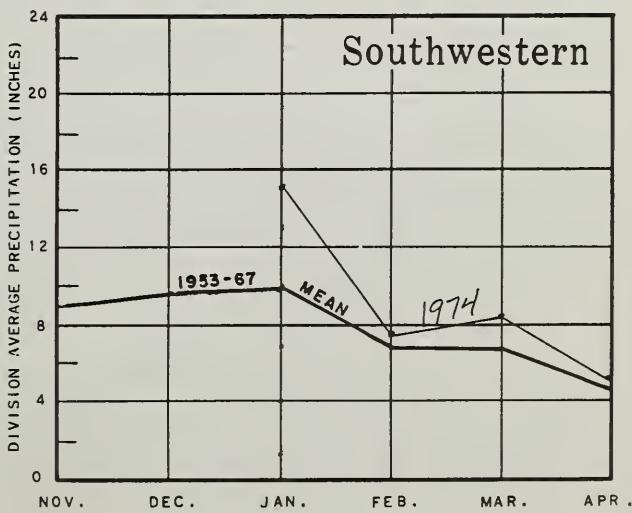
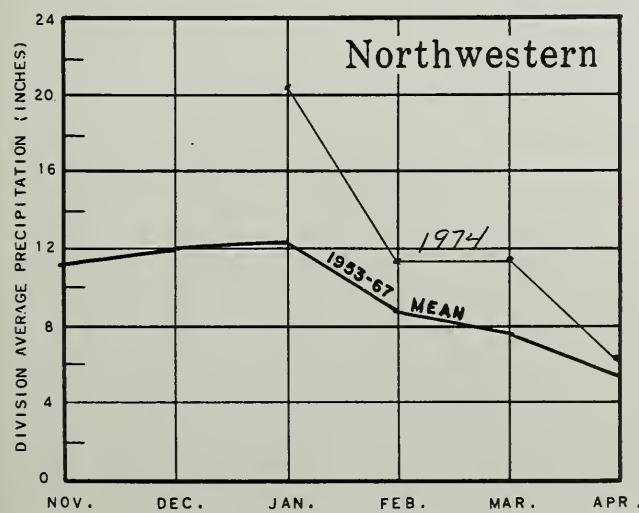
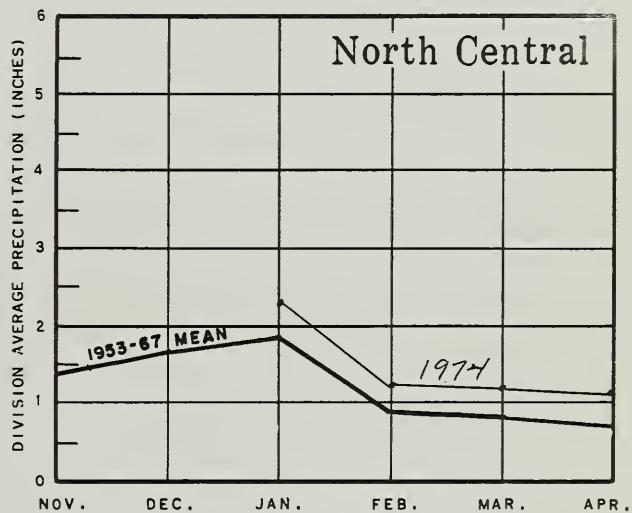
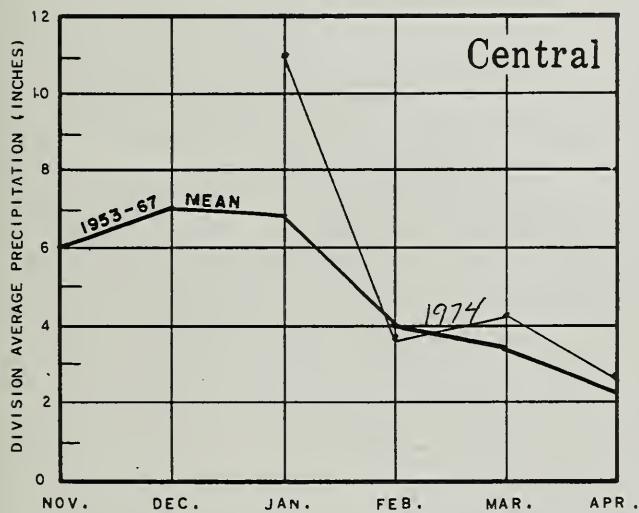
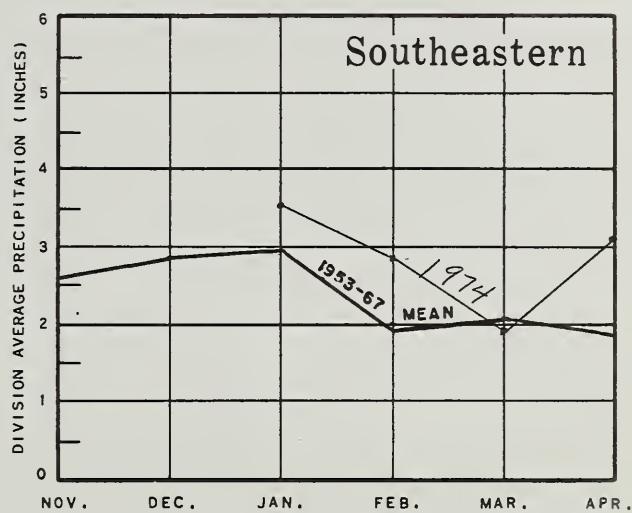
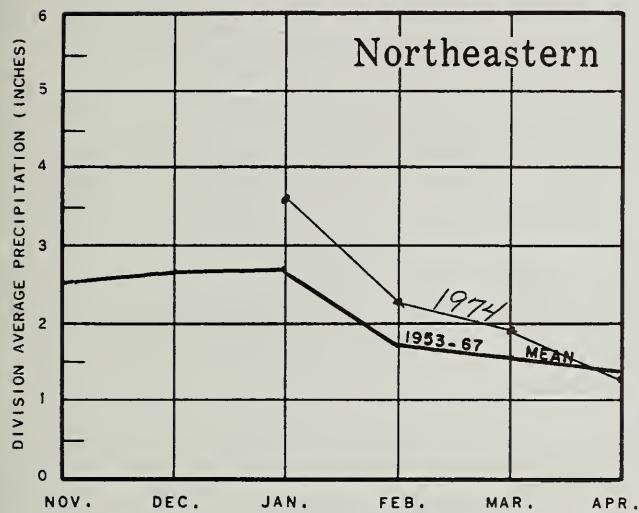
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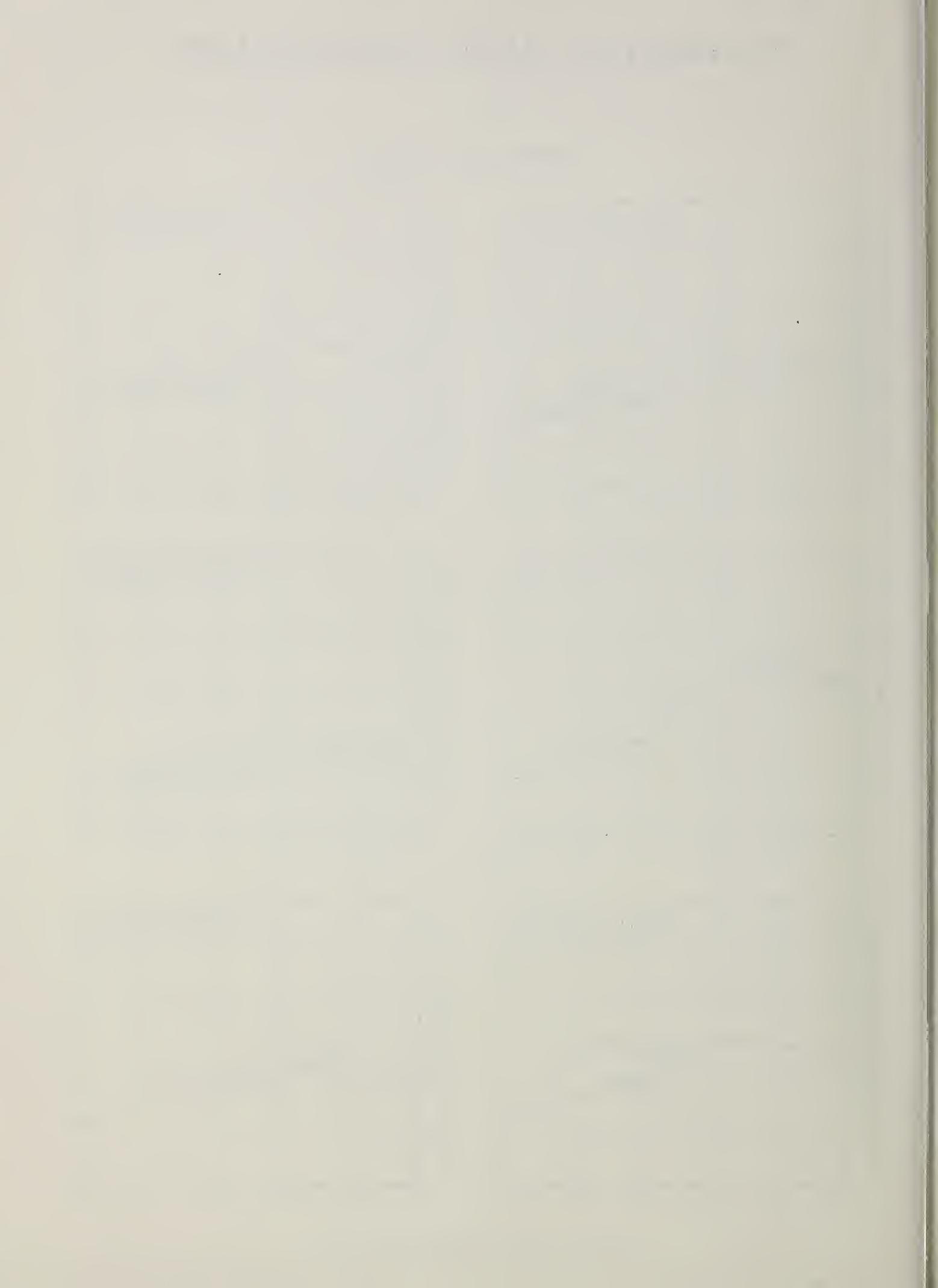
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# WASHINGTON VALLEY PRECIPITATION

1974

## DRAINAGE AREAS

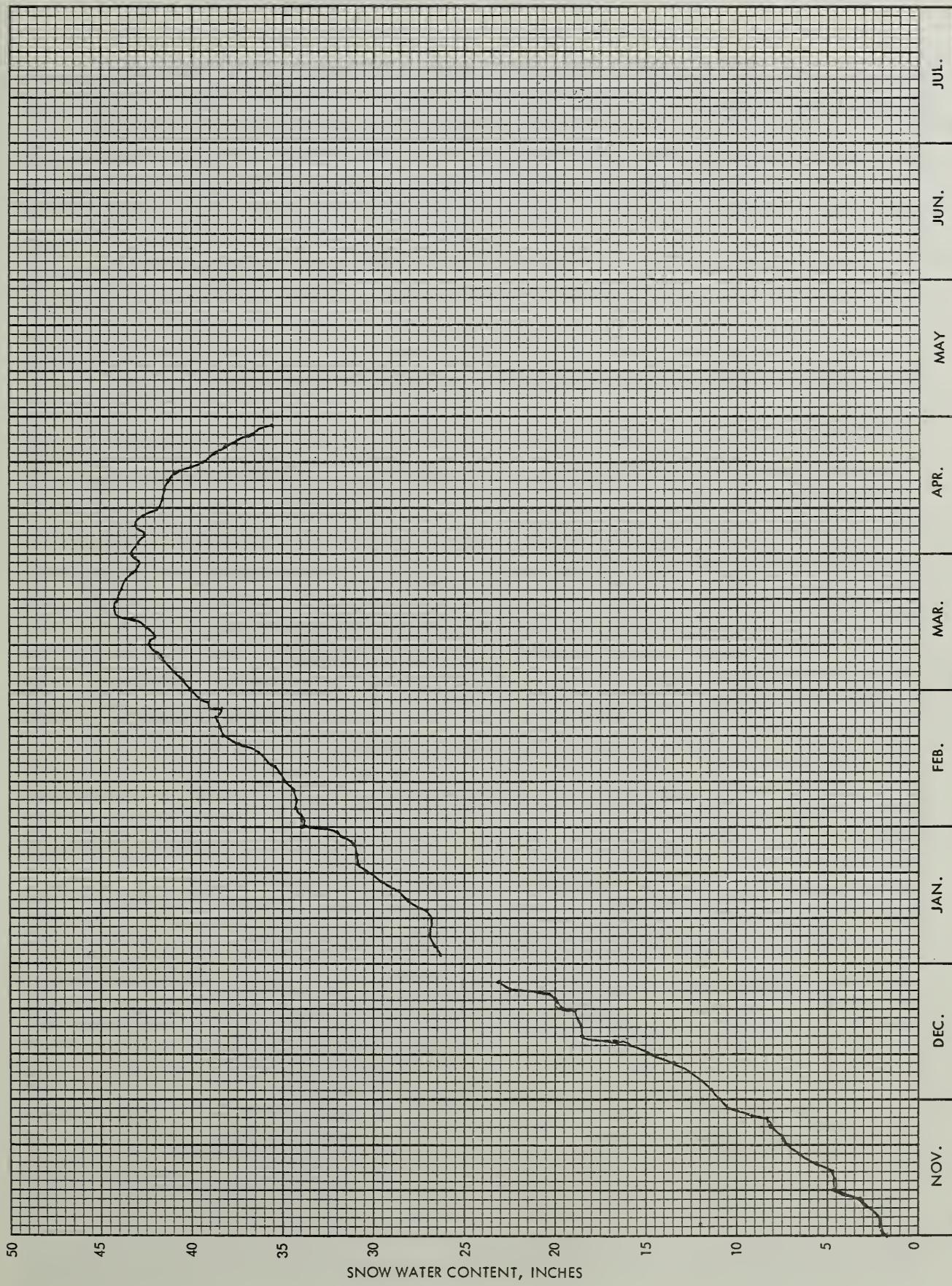


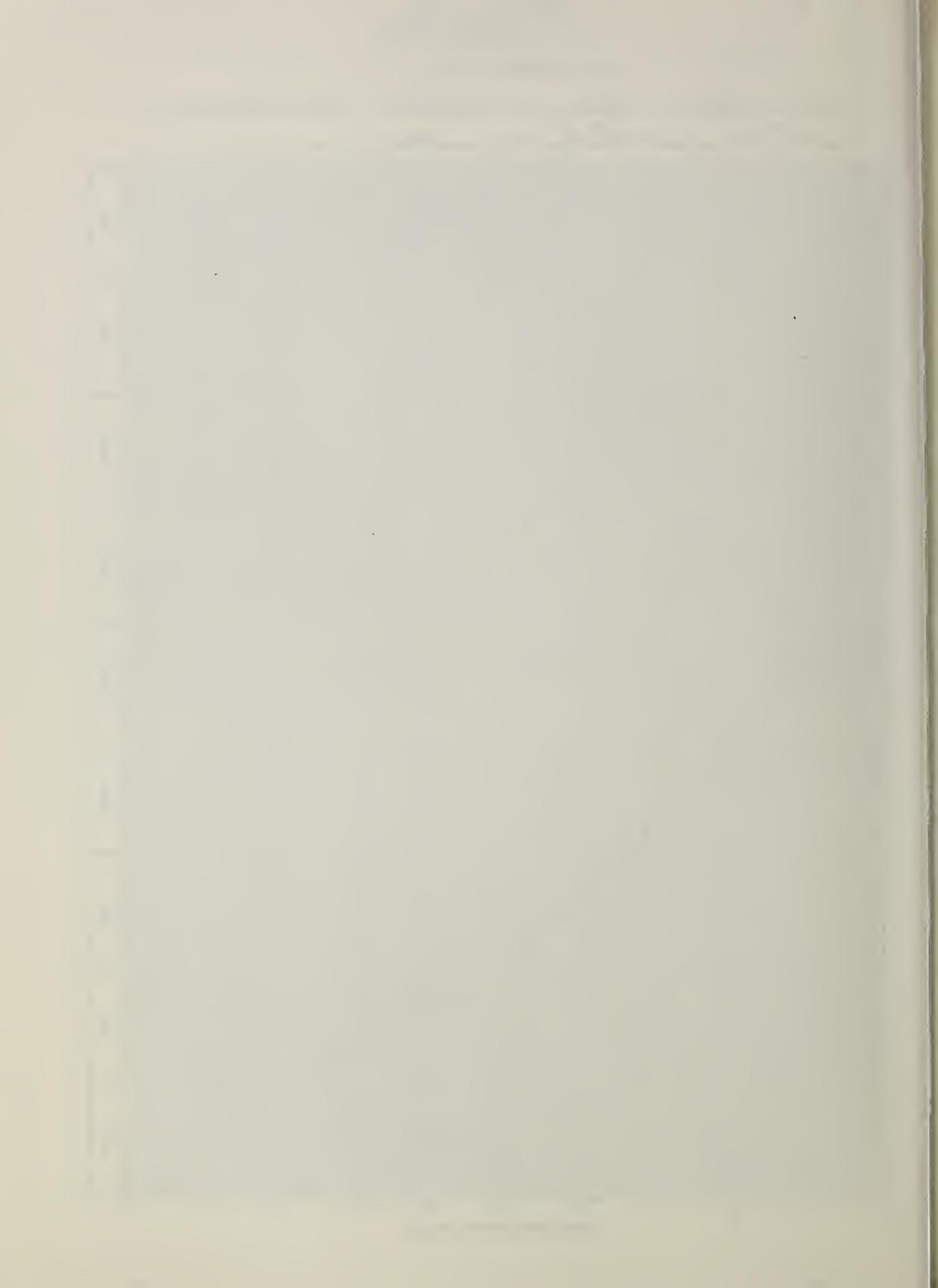


BERNE-IL., CREEK  
SNOW PILLOW DATA

AS OF MAY 1, 1974

Sec. 13 T. 26N R. 14E No. 21B41SP Drainage: Wenatchee R.  
Lat. 47° 45' Long. 121° 42' Elev. 3240



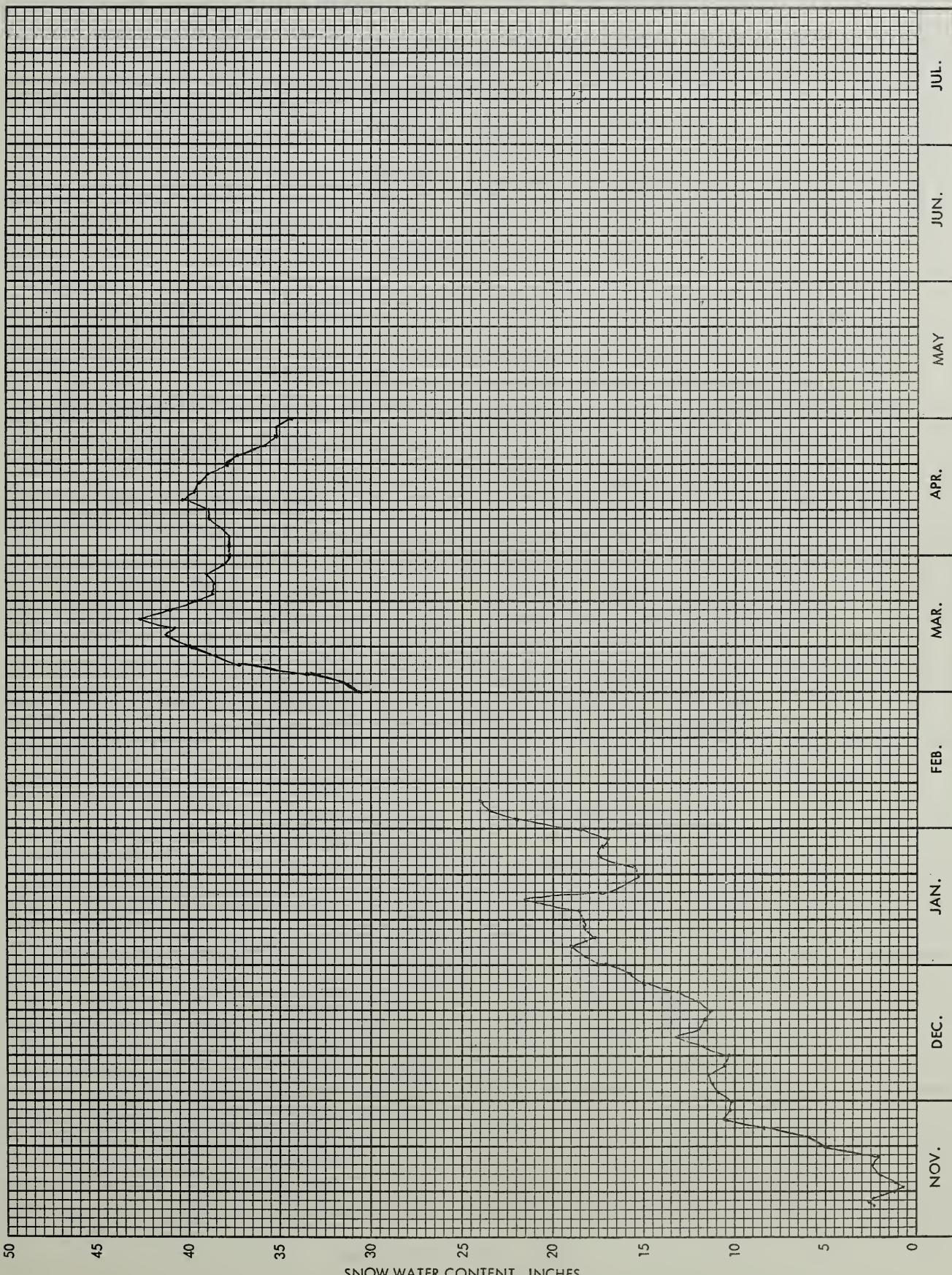


COUGAR MOUNTAIN - FS

SNOW PILLOW DATA

AS OF MAY 1, 1974

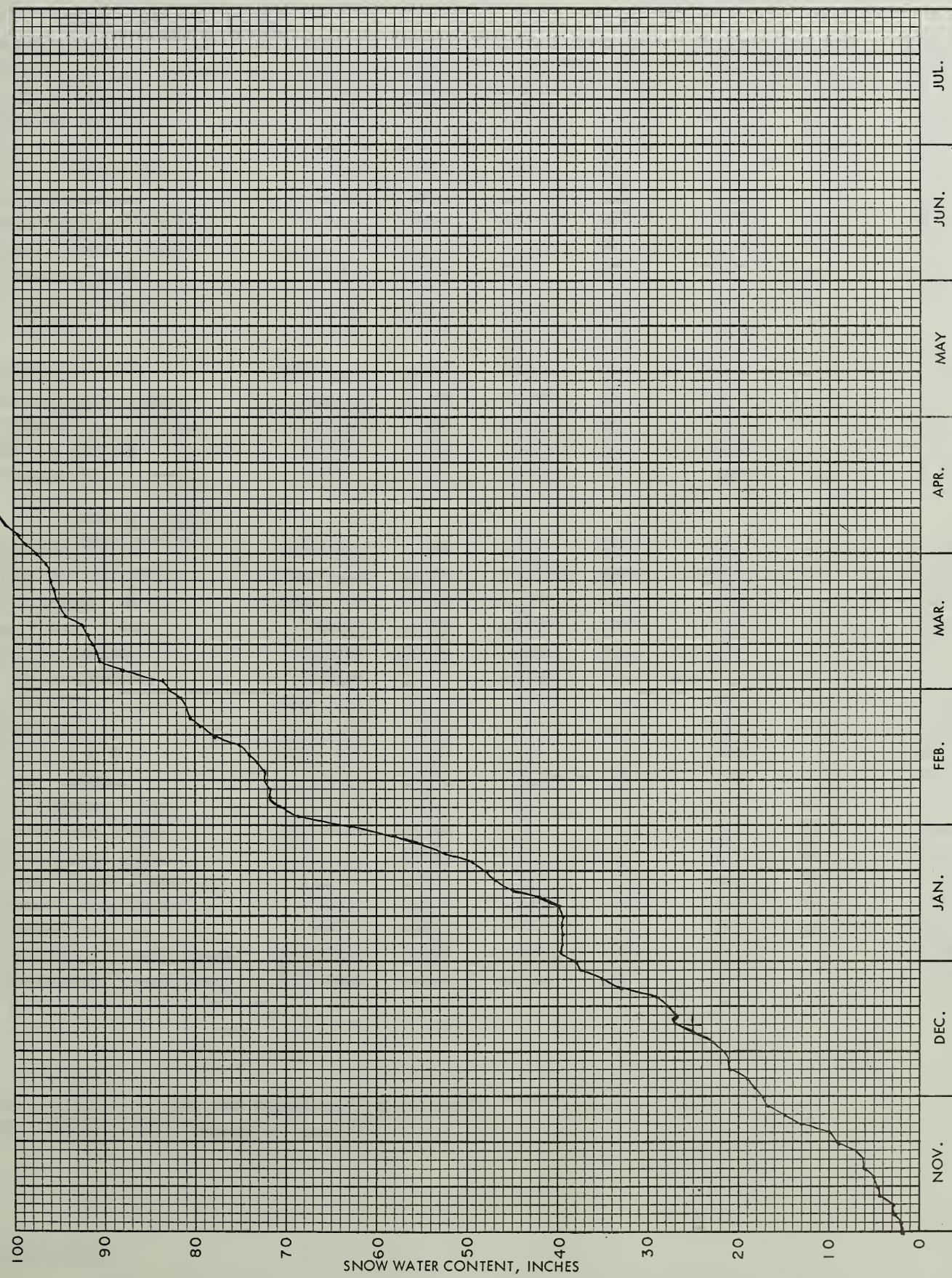
Sec. 21 T. 21N R. 9E No. 21B42SP Drainage: Green River  
Lat. 47° 17' Long. 120° 40' Elev. 3200'





## SNOWSHOE BUTTE - FS

## SNOW PILLOW DATA

AS OF MAY 1, 1974Sec. 28 T. 21N R. 9E No. 21B43SP Drainage: Green RiverLat. 47° 13' Long. 121° 22' Elev. 5000'



## SNOW DATA TO MAY 1, 1974 - APPENDIX 1

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE |        |           | THIS YEAR      |                     |                        | PAST RECORD            |           |                      |
|-----------------------------------|--------|-----------|----------------|---------------------|------------------------|------------------------|-----------|----------------------|
| NAME                              | Number | Elevation | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Water Content (inches) | Last Year | Average <sup>#</sup> |

## U P P E R C O L U M B I A D R A I N A G E

PEND OREILLE RIVER

|                   |        |      |      |     |      |      |      |
|-------------------|--------|------|------|-----|------|------|------|
| Baree Creek       | 15B11  | 5500 | 4/30 | 148 | 74.3 | 26.6 | 49.6 |
| Baree Midway      | 15B16  | 4600 | 4/30 | 105 | 50.9 | 18.0 | 35.1 |
| Baree Trail       | 15B15  | 3800 | 5/1  | 4   | 1.6  | 0.0  | 1.2  |
| Benton Meadow     | 16A02  | 2344 | 4/30 | 0   | 0.0  | 0.0  | 0.0  |
| Benton Spring     | 16A03  | 4900 | 4/30 | 58  | 27.0 | 9.4  | 15.7 |
| Boyer Mountain    | 17A02  | 5250 | 4/29 | 85  | 40.3 | 17.6 | 26.1 |
| Brush Creek       | 14A04  | 5000 | 4/30 | 24  | 9.6  | 5.0  | 8.2  |
| Bunchgrass Meadow | 17A01  | 5000 | 4/30 | 94  | 48.0 | 24.8 | 30.4 |
| Heart Lake Trail  | 14C10  | 4800 | 5/3  | 58  | 26.4 | 1.6  | 19.0 |
| Hoodoo Basin      | 15C10  | 6000 | 5/3  | 153 | 75.2 | 34.8 | 55.2 |
| Hoodoo Creek      | 15C01  | 5900 | 5/3  | 148 | 72.2 | 31.6 | 52.2 |
| Lookout           | 15B02  | 5250 | 4/19 | 125 | 56.8 | 19.2 | -    |
|                   |        |      | 5/1  | 110 | 48.0 | 16.8 | 37.7 |
| Nelson            | 19-Can | 3050 | 4/26 | 32  | 11.7 | 4.2  | 7.0* |
| Schweitzer Bowl   | 16A06  | 4500 | 4/30 | 87  | 42.2 | 12.8 | 26.6 |
| Schweitzer Ridge  | 16A05  | 6100 | 4/30 | 152 | 70.5 | 36.7 | 50.6 |
| Smith Creek       | 16A01  | 4800 | 4/25 | 154 | 75.6 | 33.4 | 47.9 |
| Winchester Creek  | 17A03  | 2970 | 4/29 | 0   | 0.0  | 0.0  | 1.6  |

KETTLE RIVER

|                      |         |      |      |     |      |      |            |
|----------------------|---------|------|------|-----|------|------|------------|
| Barnes Creek         | 90-Can  | 5300 | 4/27 | 60  | 26.9 | 15.9 | 21.3*      |
| Big White Mtn.       | 154-Can | 5500 | 4/28 | 68  | 30.0 | 16.7 | 21.3*      |
| Bluejoint Mtn.       | 244-Can | 7500 | 4/27 | 104 | 46.7 | -    | New Course |
| Boulder Road         | 18A02   | 1450 | 4/29 | 0   | 0.0  | 0.0  | 0.0        |
| Butte Creek          | 18A03   | 4070 | 4/29 | 24  | 10.1 | 4.9  | 5.9        |
| Cabin Creek          | 18A08   | 3170 | 4/29 | 4   | 1.5  | 0.0  | 1.5        |
| Carmi                | 126-Can | 4100 | 4/28 | 7   | 2.3  | 0.0  | 1.9*       |
| Farron # 1           | 17-Can  | 4000 | 4/26 | 40  | 16.1 | 7.9  | 8.2*       |
| Farron # 2           | 243-Can | 4000 | 4/26 | 39  | 16.0 | 7.1  | New Course |
| Goat Creek           | 18A04   | 3595 | 4/29 | 0   | 0.0  | 0.0  | 0.0        |
| Grystoke Lake        | 5-Can   | 5950 | 4/26 | 68  | 29.3 | 18.4 | 26.9*      |
| Monashee Pass        | 48A-Can | 4500 | 4/27 | 37  | 15.5 | 10.5 | 13.4*      |
| Old Glory Mtn.       | 42-Can  | 7000 | 4/29 | 106 | 48.0 | 26.8 | 30.8*      |
| Snow Caps Creek      | 18A05   | 2150 | 4/29 | 0   | 0.0  | 0.0  | 0.0        |
| Snow Caps Trail      | 18A06   | 2720 | 4/29 | 0   | 0.0  | 0.0  | 0.0        |
| Summit G. S.         | 18A07   | 4600 | 4/29 | 22  | 8.5  | 4.7  | 6.0        |
| Trapping Creek Lower | 166-Can | 3050 | 4/28 | 0   | 0.0  | -    | 0.0*       |
| Trapping Creek Upper | 165-Can | 4450 | 4/28 | 24  | 9.8  | 3.6  | 6.1*       |

# Average based on 1958-1972 average

\* Average for years of record



## SNOW DATA TO MAY 1, 1974 - APPENDIX 2

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE |         |           | THIS YEAR      |                     |                        | PAST RECORD |                      |
|-----------------------------------|---------|-----------|----------------|---------------------|------------------------|-------------|----------------------|
| NAME                              | Number  | Elevation | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Last Year   | Average <sup>#</sup> |
| <u>SPOKANE RIVER</u>              |         |           |                |                     |                        |             |                      |
| Above Burke                       | 15B08   | 4100      | 5/1            | 64                  | 28.8                   | 3.0         | -                    |
| Copper Ridge                      | 16B02   | 4800      | 4/30           | 83                  | 37.5                   | 0.0         | 27.3                 |
| Forty-nine Meadows                | 15B03   | 5000      | 4/30           | 85                  | 34.5                   | 10.0        | 30.3                 |
| Fourth of July Summit             | 16B03   | 3100      | 4/30           | 0                   | 0.0                    | 0.0         | -                    |
| Granite Peak                      | 15B13A  | 6000      | 4/30           | 151                 | 60.4                   | 30.9        | 48.3                 |
| Lookout                           | 15B02   | 5250      | 4/19           | 125                 | 56.8                   | 19.2        | -                    |
|                                   |         |           | 5/1            | 110                 | 48.0                   | 16.8        | 37.7                 |
| Lost Lake                         | 15B14A  | 6000      | 4/30           | 245                 | 104.0                  | 35.6        | 62.0                 |
| Lower Sands Creek                 | 16B01   | 3400      | 4/30           | 65                  | 27.1                   | 0.0         | 16.0                 |
| Medicine Ridge                    | 15B04A  | 6150      | 4/30           | 149                 | 59.8                   | 31.2        | 51.5                 |
| Sherwin                           | 16C01   | 3200      | 4/30           | 33                  | 13.0                   | 0.0         | -                    |
| <u>OKANOGAN RIVER</u>             |         |           |                |                     |                        |             |                      |
| Aberdeen Lake                     | 6A-Can  | 4300      | 4/30           | 4                   | 2.0                    | 1.5         | 1.7*                 |
| Blackwall Mountain                | 100-Can | 6250      | 4/30           | 112                 | 52.8                   | 27.4        | 38.8*                |
| Bouleau Lake                      | 234-Can | 4580      | 4/28           | 47                  | 19.2                   | 11.4        | 15.3*                |
| Brenda Mine                       | 193-Can | 4800      | 4/29           | 35                  | 15.5                   | 5.9         | 10.8*                |
| Brookmere                         | 27-Can  | 3200      | 4/30           | 16                  | 5.6                    | 2.1         | 5.9*                 |
| Carrs Landing Upper               | 168-Can | 3200      | 4/29           | 0                   | 0.0                    | -           | 0.0                  |
| Enderby                           | 130-Can | 6250      | 4/29           | 145                 | 50.2                   | 38.0        | 43.1*                |
| Esperon Creek Lower               | 164-Can | 4400      | 4/28           | 36                  | 14.8                   | 6.8         | 11.0*                |
| Esperon Creek Middle              | 163-Can | 4700      | 4/28           | 45                  | 20.2                   | 8.5         | 13.9*                |
| Esperon Creek Upper               | 162-Can | 5400      | 4/28           | 68                  | 31.7                   | 12.3        | 20.4*                |
| Freezeout Meadows New             | 20A38   | 5000      | 4/29           | 157                 | 79.2                   | 20.9        | -                    |
| Graystoke Lake                    | 5-Can   | 5950      | 4/16           | 74                  | 29.9                   | -           | -                    |
|                                   |         |           | 4/26           | 68                  | 29.3                   | 18.4        | 26.9*                |
| Hamilton Hill                     | 107-Can | 4900      | 4/27           | 42                  | 15.6                   | 7.9         | 13.4*                |
| Harts Pass                        | 20A05A  | 6500      | 4/29           | 160                 | 72.9                   | 32.4        | 50.3                 |
| Isintok Lake                      | 152-Can | 5510      | 4/27           | 36                  | 13.0                   | 5.0         | 7.3*                 |
| Lost Horse Mountain               | 105-Can | 6300      | 4/29           | 48                  | 17.0                   | 8.2         | 10.7*                |
| Loup Loup                         | 19A07   | 4650      | 4/29           | 21                  | 9.2                    | -           | -                    |
| McCulloch                         | 4-Can   | 4200      | 4/28           | 10                  | 3.8                    | 1.0         | 2.8*                 |
| Misseezula Mountain               | 106-Can | 5100      | 4/28           | 37                  | 12.7                   | -           | 4.5*                 |
| Mission Creek                     | 5A-Can  | 6000      | 4/16           | 84                  | 32.2                   | -           | -                    |
|                                   |         |           | 4/29           | 74                  | 31.4                   | 17.4        | 21.7*                |
| Monashee Pass                     | 48A-Can | 4500      | 4/27           | 37                  | 15.5                   | 10.5        | 13.4*                |
| Mount Kobau                       | 156-Can | 4950      | 4/30           | 55                  | 23.5                   | 7.7         | 13.7*                |
| Mutton Creek No. 1                | 19A01   | 5700      | 4/26           | 59                  | 28.3                   | 0.0         | 10.9                 |
| Mutton Creek No. 2                | 19A04   | 6000      | 4/26           | 66                  | 29.1                   | 9.5         | 15.5                 |
| Mutton Creek No. 2SP              | 19A11SP | 6000      | 4/26           | -                   | 25.4                   | 6.7         | -                    |
| New Copper Mountain               | 46A-Can | 4300      | 4/29           | 0                   | 0.0                    | 0.0         | 3.7*                 |
| New Penticton Res. #2             | 183-Can | 5225      | 4/30           | 33                  | 12.5                   | 5.8         | -                    |
| Nickel Plate Mtn.                 | 47-Can  | 6200      | 5/2            | 42                  | 13.7                   | 5.0         | 7.9*                 |

# Average based on 1958-1972 average

\* Average for years of record



## SNOW DATA TO MAY 1, 1974 - APPENDIX 3

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE |         |           | THIS YEAR      |                     |                        | PAST RECORD            |           |                      |
|-----------------------------------|---------|-----------|----------------|---------------------|------------------------|------------------------|-----------|----------------------|
| NAME                              | Number  | Elevation | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Water Content (Inches) | Last Year | Average <sup>#</sup> |
| <u>OKANOGAN RIVER (Cont.)</u>     |         |           |                |                     |                        |                        |           |                      |
| Oyama Lake                        | 203-Can | 4400      | 5/1            | Not Measured        | 2.2                    | 4.2*                   |           |                      |
| Postill Lake                      | 55-Can  | 4500      | 5/1            | 23                  | 9.6                    | 5.2                    | 6.8*      |                      |
| Quartette Lake                    | 34-Can  | 4000      | 4/29           | 38                  | 13.8                   | 6.6                    | -         |                      |
| Rusty Creek                       | 19A03   | 4000      | 4/25           | 11                  | 5.0                    | 0.0                    | 0.6       |                      |
| Salmon Meadows                    | 19A02   | 4500      | 4/26           | 29                  | 13.1                   | 0.0                    | 5.4       |                      |
| Silver Star Mountain              | 99-Can  | 6050      | 4/14           | 109                 | 45.8                   | -                      | -         |                      |
|                                   |         |           | 4/28           | 100                 | 44.7                   | 25.6                   | 27.4*     |                      |
| Summerland Reservoir              | 3A-Can  | 4200      | 4/27           | 26                  | 10.0                   | 3.8                    | 6.7*      |                      |
| Trout Creek                       | 3-Can   | 4700      | 4/28           | 24                  | 8.6                    | 2.9                    | 5.2*      |                      |
| Vaseux Creek                      | 233-Can | 4600      | 5/2            | 9                   | 2.8                    | 0.0                    | 2.9*      |                      |
| White Rocks Mountain              | 70-Can  | 6000      | 4/29           | 85                  | 39.9                   | 18.4                   | 28.3*     |                      |
| <u>METHOW RIVER</u>               |         |           |                |                     |                        |                        |           |                      |
| Harts Pass                        | 20A05A  | 6500      | 4/29           | 160                 | 72.9                   | 32.4                   | 50.3      |                      |
| Loup Loup                         | 19A07   | 4650      | 4/29           | 21                  | 9.2                    | -                      | -         |                      |
| Mutton Creek No. 1                | 19A01   | 5700      | 4/26           | 59                  | 28.3                   | 0.0                    | 10.9      |                      |
| Mutton Creek No. 2                | 19A04   | 6000      | 4/26           | 66                  | 29.1                   | 9.5                    | 15.6      |                      |
| Mutton Creek No. 2SP              | 19A11SP | 6000      | 4/26           | -                   | 25.4                   | 6.7                    | -         |                      |
| Rusty Creek                       | 19A03   | 4000      | 4/25           | 11                  | 5.0                    | 0.0                    | 0.6       |                      |
| Salmon Meadows                    | 19A02   | 4500      | 4/26           | 29                  | 13.1                   | 0.0                    | 5.4       |                      |
| <u>CHELAN LAKE BASIN</u>          |         |           |                |                     |                        |                        |           |                      |
| Rainy Pass                        | 20A09   | 4780      | 4/29           | 129                 | 60.6                   | 33.0                   | 44.3      |                      |
| Safety Harbor                     | 20A30A  | 6300      | 4/23           | 114                 | 46.6                   | 17.3                   | 29.2      |                      |
| <u>ENTIAT RIVER</u>               |         |           |                |                     |                        |                        |           |                      |
| Blue Creek G. S.                  | 20B28a  | 5425      | 4/29           | 118                 | 60.7                   | 23.0                   | New       |                      |
| Brief                             | 20B19   | 1600      | 4/30           | 0                   | 0.0                    | -                      | 0.0       |                      |
| Entiat Meadows +                  | 20A33a  | 4800      | 4/29           | 136                 | 69.9                   | 25.0                   | 41.0      |                      |
| Entiat River Trail +              | 20A34a  | 3150      | 4/29           | 34                  | 15.8                   | 0.0                    | 9.7       |                      |
| Four Mile Ridge +                 | 20B27a  | 7000      | 4/29           | 108                 | 55.5                   | 20.0                   | -         |                      |
| Fox Camp +                        | 20A36a  | 6510      | 4/29           | 182                 | 93.5                   | 40.0                   | 63.5      |                      |
| Pope Ridge                        | 20B20   | 4300      | 4/26           | 43                  | 20.0                   | 0.0                    | 8.2       |                      |
| Pugh Ridge +                      | 20A32a  | 6400      | 4/29           | 119                 | 61.2                   | 26.5                   | 38.7      |                      |
| Shady Pass                        | 20A37   | 6200      | 4/30           | 91                  | 46.6                   | 14.3                   | -         |                      |
| Snow Brushy +                     | 20A35a  | 3850      | 4/29           | 97                  | 49.9                   | 14.5                   | 30.8      |                      |
| Tommy Creek +                     | 20B21a  | 5300      | 4/29           | 70                  | 36.0                   | 7.5                    | 22.5      |                      |

# Average based on 1958-1972 average

\* Average for years of record

+ Snow water equivalent estimated from aerial stadia observation



## SNOW DATA TO MAY 1, 1974 - APPENDIX 4

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE |         |           | THIS YEAR      |                     |                        | PAST RECORD            |                                       |
|-----------------------------------|---------|-----------|----------------|---------------------|------------------------|------------------------|---------------------------------------|
| NAME                              | Number  | Elevation | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Water Content (Inches) | Average $\frac{\text{in}}{\text{in}}$ |
| <u>WENATCHEE RIVER</u>            |         |           |                |                     |                        |                        |                                       |
| Berne-Mill Creek                  | 21B23   | 3170      | 4/29           | 79                  | 39.8                   | 3.8                    | 21.1                                  |
| Berne-Mill Creek New SP           | 21B41SP | 3240      | 4/29           | 65                  | 31.6                   | 0.0                    | 17.7                                  |
| Blewett Pass No. 2                | 20B02   | 4270      | 4/12           | 54                  | 23.8                   | 4.2                    | 13.0                                  |
|                                   |         |           | 4/29           | 36                  | 17.5                   | 0.0                    | 9.5                                   |
| Chiwaukum G. S.                   | 20B16   | 1810      | 4/29           | 0                   | 0.0                    | 0.0                    | 1.8                                   |
| Fish Lake                         | 21B04   | 3371      | 4/25           | 101                 | 47.9                   | 3.8                    | 26.7                                  |
| Lake Wenatchee                    | 20B05   | 1970      | 4/29           | 6                   | 3.1                    | 0.0                    | 1.6                                   |
| Merritt                           | 20B18   | 2140      | 4/29           | 18                  | 8.3                    | 0.0                    | 3.8                                   |
| Stevens Pass                      | 21B01   | 4070      | 4/15           | 175                 | 83.2                   | 32.9                   | 55.2                                  |
|                                   |         |           | 4/29           | 165                 | 82.6                   | 31.4                   | 55.8                                  |
| Stevens Pass Sand Shed            | 21B45   | 3700      | 4/15           | 133                 | 63.4                   | 16.7                   | -                                     |
|                                   |         |           | 4/29           | 119                 | 59.6                   | 12.2                   | -                                     |
| <u>SQUILCHUCK CREEK</u>           |         |           |                |                     |                        |                        |                                       |
| Beehive Springs                   | 20B03   | 4400      | 4/30           | 9                   | 3.9                    | 0.0                    | 1.7                                   |
| Scout-A-Vista                     | 20B04   | 3400      | 4/30           | 0                   | 0.0                    | 0.0                    | 0.4                                   |
| <u>STEMILT CREEK</u>              |         |           |                |                     |                        |                        |                                       |
| Jump-Off                          | 20B08   | 4450      | 4/29           | 10                  | 4.6                    | 0.0                    | 2.8                                   |
| Stemilt Slide                     | 20B06   | 5000      | 4/29           | 32                  | 14.9                   | 0.0                    | 7.1                                   |
| Upper Wheeler                     | 20B07   | 4400      | 4/29           | 0                   | 0.0                    | 0.0                    | 1.0                                   |
| <u>COLOCKUM CREEK</u>             |         |           |                |                     |                        |                        |                                       |
| Colockum Creek Upper              | 20B22   | 5300      | 4/30           | 31                  | 15.3                   | 0.0                    | -                                     |
| Colockum Creek Lower              | 20B23   | 4300      | 4/30           | 7                   | 3.0                    | 0.0                    | -                                     |
| <u>YAKIMA RIVER</u>               |         |           |                |                     |                        |                        |                                       |
| Ahtanum R. S.                     | 21C11   | 3100      | 5/1            | 0                   | 0.0                    | -                      | 0.0                                   |
| Big Boulder Creek                 | 21B09   | 3200      | 4/25           | 59                  | 28.1                   | 0.0                    | 7.4                                   |
| Blewett Pass No. 2                | 20B02   | 4270      | 4/12           | 54                  | 23.8                   | 4.2                    | 13.0                                  |
|                                   |         |           | 4/29           | 36                  | 17.5                   | 0.0                    | 9.5                                   |
| Bumping Lake                      | 21C08   | 3450      | 4/15           | 64                  | 28.2                   | 3.4                    | 13.4                                  |
|                                   |         |           | 4/30           | 46                  | 19.9                   | 0.0                    | 9.4                                   |
| Bumping Lake New                  | 21C36   | 3400      | 4/15           | 77                  | 34.2                   | 7.6                    | -                                     |
|                                   |         |           | 4/30           | 59                  | 26.6                   | 0.0                    | 15.0                                  |
| Cayuse Pass                       | 21C06   | 5300      | 4/12           | 295                 | 129.2                  | 54.5                   | 90.2                                  |
|                                   |         |           | 4/29           | 272                 | 138.1                  | 53.9                   | -                                     |
| Fish Lake                         | 21B04   | 3371      | 4/25           | 101                 | 47.9                   | 3.8                    | 26.7                                  |
| Joe Lake +                        | 21B46a  | 4624      | 4/29           | 219++               | 2/                     | 33.8                   | -                                     |
| Lake Cle Elum                     | 21B14M  | 2200      | 4/15           | 0                   | 0.0                    | -                      | -                                     |
|                                   |         |           | 4/29           | 0                   | 0.0                    | -                      | 0.0                                   |

# Average based on 1958-1972 average

++ Snow deeper than full length of aerial marker

2/ Marker Buried

+ Snow water equivalent estimated from aerial stadia observation



## SNOW DATA TO MAY 1, 1974 - APPENDIX 5

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE |        |           | THIS YEAR      |                     |                        | PAST RECORD |                      |
|-----------------------------------|--------|-----------|----------------|---------------------|------------------------|-------------|----------------------|
| NAME                              | Number | Elevation | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Last Year   | Average <sup>#</sup> |
| <u>YAKIMA RIVER (Cont.)</u>       |        |           |                |                     |                        |             |                      |
| Lemah Creek +                     | 21B47a | 3327      | 4/26           | 129                 | 65.0                   | 16.2        | -                    |
| Olallie Meadows                   | 21B02  | 3625      | 4/27           | 179                 | 91.3                   | 19.2        | 48.4                 |
|                                   |        |           | 4/29           | 173                 | 91.6                   | 18.2        | 48.6                 |
| Satus Pass                        | 20D01  | 4030      | 4/30           | 16                  | 7.8                    | 0.0         | 1.9                  |
| Stampede Pass                     | 21B10  | 3860      | 4/15           | 156                 | 65.7                   | 23.4        | 43.4                 |
|                                   |        |           | 4/29           | 138                 | 62.1                   | 22.2        | 43.4                 |
| Tunnel Avenue                     | 21B08  | 2450      | 4/15           | 77                  | 34.3                   | 4.3         | 20.1                 |
|                                   |        |           | 4/29           | 60                  | 27.0                   | 0.0         | 16.0                 |
| Van Epps Pass +                   | 20B26a | 5925      | 4/26           | 164                 | 75.0                   | 33.3        | -                    |
| Waptus Lake +                     | 21B49a | 3024      | 4/26           | 105                 | 50.0                   | 13.5        | -                    |
| White Pass (E. Side)              | 21C28  | 4500      | 4/16           | 102                 | 45.4                   | 10.2        | 26.0                 |
|                                   |        |           | 4/29           | 95                  | 45.3                   | -           | 25.9                 |
| White Pass (L. Lake)              | 21C27  | 4500      | 4/29           | 103                 | 49.5                   | 8.6         | 28.6                 |
| <u>AHTANUM CREEK</u>              |        |           |                |                     |                        |             |                      |
| Ahtanum R. S.                     | 21C11  | 3100      | 5/1            | 0                   | 0.0                    | -           | 0.0                  |
| <u>LOWER COLUMBIA</u>             |        |           |                |                     |                        |             |                      |
| <u>ASOTIN CREEK</u>               |        |           |                |                     |                        |             |                      |
| Spruce Springs                    | 17C04  | 5700      | 4/29           | 88                  | 43.7                   | 9.4         | 25.8                 |
| <u>MILL CREEK</u>                 |        |           |                |                     |                        |             |                      |
| Tollgate                          | 18D3M  | 5070      | 4/26           | 104                 | 52.9                   | 7.0         | 18.9                 |
| <u>KLICKITAT RIVER</u>            |        |           |                |                     |                        |             |                      |
| Satus Pass                        | 20D01  | 4030      | 4/30           | 16                  | 7.8                    | 0.0         | 1.9                  |
| <u>WHITE SALMON RIVER</u>         |        |           |                |                     |                        |             |                      |
| Cultus Creek                      | 21C12  | 4000      | 4/28           | 164                 | 79.7                   | 21.9        | 48.9                 |
| Surprise Lakes                    | 21C13A | 4250      | 4/28           | 185                 | 92.5                   | 18.5        | 52.9                 |
| <u>WIND RIVER</u>                 |        |           |                |                     |                        |             |                      |
| Old Man Pass                      | 21D19  | 3100      | 4/28           | 58                  | 27.0                   | 0.0         | 12.6                 |
| <u>LEWIS RIVER</u>                |        |           |                |                     |                        |             |                      |
| Blue Lake +                       | 21C22a | 4800      | 4/29           | 292                 | 146.0                  | 53.5        | 92.4                 |
| Bob's Trail                       | 21C21  | 2200      | 4/29           | 38                  | 18.0                   | 0.0         | 7.8                  |
| Calamity Ridge +                  | 22D01a | 2500      | 4/28           | 0                   | 0.0                    | 0.0         | 1.3                  |
| Council Pass +                    | 21C18a | 4200      | 4/29           | 136                 | 68.0                   | 16.9        | 38.8                 |
| Cultus Creek                      | 21C12  | 4000      | 4/28           | 164                 | 79.7                   | 21.9        | 48.9                 |
| Divide Meadow +                   | 21C29a | 5600      | 4/29           | 192                 | 96.0                   | 34.3        | 65.5                 |
| Grand Meadow                      | 21C25  | 3500      | 4/28           | 86                  | 40.2                   | 1.1         | 22.4                 |

# Average based on 1958-1972 average

+ Snow water equivalent estimated from aerial stadia observation



## SNOW DATA TO MAY 1, 1974 - APPENDIX 6

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE |        |           | THIS YEAR      |                     |                        | PAST RECORD |                      |
|-----------------------------------|--------|-----------|----------------|---------------------|------------------------|-------------|----------------------|
| NAME                              | Number | Elevation | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Last Year   | Average <sup>#</sup> |

LEWIS RIVER (Cont.)

|                     |        |      |      |     |       |      |      |
|---------------------|--------|------|------|-----|-------|------|------|
| Lone Pine Shelter   | 21C26  | 3800 | 4/12 | 184 | 83.2  | 21.4 | 43.3 |
|                     |        |      | 4/29 | 160 | 81.0  | 20.3 | 46.3 |
| Marble Mountain +   | 22C05a | 3200 | 4/28 | 132 | 72.6  | 4.3  | 33.2 |
| Mosquito Meadows    | 21C19  | 4100 | 4/10 | 167 | 74.1  | 22.6 | 44.9 |
|                     |        |      | 4/29 | 147 | 72.9  | 21.7 | 45.8 |
| New Muddy River     | 22C06  | 2000 | 4/29 | 0   | 0.0   | 0.0  | 0.8  |
| Old Man Pass        | 21D19  | 3100 | 4/28 | 58  | 27.0  | 0.0  | 12.6 |
| Plains of Abraham + | 21C1a  | 4400 | 4/28 | 236 | 120.4 | 45.6 | 76.9 |
| Smith Creek Road    | 22C04  | 2100 | 4/28 | 14  | 6.1   | 0.0  | 5.3  |
| Spencer Meadow +    | 21C20a | 3400 | 4/29 | 90  | 43.2  | 0.0  | 16.1 |
| Surprise Lakes      | 21C13A | 4250 | 4/28 | 185 | 92.5  | 18.5 | 52.9 |
| Table Mountain +    | 21C24a | 4200 | 4/29 | 164 | 82.0  | 22.1 | 40.3 |
| Timbered Peak +     | 21D18a | 3000 | 4/28 | 52  | 25.0  | 0.0  | 9.9  |

COWLITZ RIVER

|                      |        |      |      |     |       |      |      |
|----------------------|--------|------|------|-----|-------|------|------|
| Cayuse Pass          | 21C06  | 5300 | 4/12 | 295 | 129.2 | 54.5 | 90.2 |
|                      |        |      | 4/29 | 272 | 138.1 | 53.9 | -    |
| Mosquito Meadows     | 21C19  | 4100 | 4/10 | 167 | 74.1  | 22.6 | 44.9 |
|                      |        |      | 4/29 | 147 | 72.9  | 21.7 | 45.8 |
| Ohanapecosh          | 21C32  | 2200 | 4/8  | 47  | 20.5  | 0.0  | 15.7 |
| Packwood Lake        | 21C31  | 2870 | 4/8  | 55  | 23.3  | 0.0  | 13.1 |
| Plains of Abraham +  | 22C01a | 4400 | 4/28 | 236 | 120.4 | 45.6 | 76.9 |
| Potato Hill          | 21C14  | 4500 | 4/10 | 128 | 54.9  | 17.9 | 33.3 |
|                      |        |      | 4/29 | 111 | 53.7  | 12.8 | -    |
| White Pass (E. Side) | 21C28  | 4500 | 4/15 | 102 | 45.4  | 10.2 | 26.0 |
|                      |        |      | 4/29 | 95  | 45.3  | -    | 25.9 |
| White Pass (L. Lake) | 21C27  | 4500 | 4/29 | 103 | 49.5  | 8.6  | 28.6 |
| Willame Creek        | 21C30  | 3250 | 4/8  | 120 | 55.6  | 13.8 | 31.4 |

PUGET SOUND DRAINAGENISQUALLY RIVER

|                   |       |      |      |     |       |      |   |
|-------------------|-------|------|------|-----|-------|------|---|
| Ghost Forest      | 21C04 | 4550 | 4/29 | 162 | 80.7  | 22.2 | - |
| Longmire          | 21C03 | 2760 | 4/29 | 21  | 10.8  | 0.0  | - |
| New Paradise Park | 21C35 | 5500 | 4/29 | 241 | 127.8 | 47.8 | - |
| Stem Glade        | 21C01 | 5050 | 4/29 | 224 | 110.0 | 43.0 | - |

GREEN RIVER

|                    |         |      |      |     |       |      |      |
|--------------------|---------|------|------|-----|-------|------|------|
| Cougar Mountain SP | 21B42SP | 3200 | 4/29 | 52  | 26.2  | 0.0  | -    |
| Snowshoe Butte SP  | 21B43SP | 5000 | 4/8  | 194 | 89.2  | -    | -    |
|                    |         |      | 4/29 | 195 | 100.0 | 42.6 | -    |
| Stampede Pass      | 21B10   | 3860 | 4/15 | 156 | 65.7  | 23.4 | 43.4 |
|                    |         |      | 4/29 | 138 | 62.1  | 22.2 | 43.4 |

# Average based on 1958-1972 average

+ Snow water equivalent estimated from aerial stadia observation



## SNOW DATA TO MAY 1, 1974 - APPENDIX 7

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE |         |           | THIS YEAR      |                     |                        | PAST RECORD |                      |
|-----------------------------------|---------|-----------|----------------|---------------------|------------------------|-------------|----------------------|
| NAME                              | Number  | Elevation | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Last Year   | Average <sup>#</sup> |
| <u>SKYKOMISH RIVER</u>            |         |           |                |                     |                        |             |                      |
| Stevens Pass                      | 21B01   | 4070      | 4/15           | 175                 | 83.2                   | 32.9        | 55.2                 |
|                                   |         |           | 4/29           | 165                 | 82.6                   | 31.4        | 55.8                 |
| Stevens Pass S. Shed              | 21B45   | 3700      | 4/15           | 133                 | 63.4                   | 16.7        | -                    |
|                                   |         |           | 4/29           | 119                 | 59.6                   | 12.2        | -                    |
| <u>SKAGIT RIVER</u>               |         |           |                |                     |                        |             |                      |
| Beaver Creek Trail                | 21A04   | 2200      | **4/12         | 41                  | 18.2                   | 3.6         | 12.6                 |
|                                   |         |           | 5/1            | 17                  | 7.3                    | 0.0         | 4.8                  |
| Beaver Pass                       | 21A01   | 3680      | **4/12         | 118                 | 55.1                   | 19.0        | 33.7                 |
|                                   |         |           | 4/29           | 103                 | 50.3                   | 16.4        | 34.0                 |
| Brown Top                         | 21A28a  | 6000      | **4/10         | 223                 | 90.2                   | 50.0        | -                    |
|                                   |         |           | 5/1            | 213                 | 98.0                   | 47.8        | -                    |
| Devils Park                       | 20A04   | 5900      | **4/10         | 149                 | 67.2                   | 34.0        | 45.6                 |
|                                   |         |           | 4/29           | 147                 | 67.6                   | 34.9        | 49.5                 |
| Freezeout Cr. Trail               | 20A01   | 3500      | **4/10         | 49                  | 19.2                   | 9.2         | 12.5                 |
|                                   |         |           | 4/29           | 36                  | 15.8                   | 4.2         | 8.2                  |
| Freezeout Meadows New             | 20A38   | 5000      | **4/10         | 168                 | 82.5                   | 23.7        | 29.9                 |
|                                   |         |           | 4/29           | 157                 | 79.2                   | 20.9        | 31.0                 |
| Granite Creek                     | 21A29   | 3500      | **4/12         | 60                  | 24.6                   | 11.4        | -                    |
|                                   |         |           | 4/27           | 48                  | 20.8                   | 4.6         | -                    |
| Harts Pass                        | 20A05A  | 6500      | **4/10         | 155                 | 70.1                   | 33.3        | 46.4                 |
|                                   |         |           | 4/29           | 160                 | 72.9                   | 32.4        | -                    |
| Klesilkwa                         | 35B-Can | 3700      | 4/30           | 37                  | 16.9                   | 1.4         | 11.3*                |
| Meadow Cabins                     | 20A08   | 1900      | **4/11         | 6                   | 2.8                    | 1.0         | 6.0                  |
|                                   |         |           | 4/29           | 0                   | 0.0                    | 0.0         | 1.3                  |
| New Hozomeen Lake                 | 21A30   | 2800      | **4/10         | 46                  | 17.8                   | 6.6         | -                    |
|                                   |         |           | 4/29           | 27                  | 11.5                   | 0.0         | -                    |
| New Tashme                        | 26A-Can | 2500      | 4/30           | 2                   | 1.1                    | 0.0         | 5.6*                 |
| Quartette Lake                    | 34-Can  | 4000      | 4/29           | 38                  | 13.8                   | 6.6         | -                    |
| Rainy Pass                        | 20A09   | 4780      | **4/12         | 142                 | 63.2                   | 30.8        | 41.6                 |
|                                   |         |           | 4/29           | 129                 | 60.6                   | 33.0        | 44.3                 |
| Thunder Basin                     | 20A07   | 4200      | **4/11         | 84                  | 35.8                   | 15.5        | 23.9                 |
|                                   |         |           | 4/29           | 78                  | 33.9                   | 14.3        | 25.5                 |
| <u>BAKER RIVER</u>                |         |           |                |                     |                        |             |                      |
| Baker Pass +                      | 21A27a  | 4900      | 4/13           | 290                 | 133.0                  | -           | -                    |
| Dock Butte                        | 21A11A  | 3800      | **4/12         | 241                 | 110.6                  | 56.2        | 71.3                 |
|                                   |         |           | 4/13           | 230                 | 106.0                  | 59.0        | 64.0                 |
|                                   |         |           | 5/3            | 218                 | 106.8                  | 54.0        | 77.4                 |
| Easy Pass                         | 21A07A  | 5200      | 4/13           | 254                 | 117.0                  | 58.0        | 86.7                 |
|                                   |         |           | 5/2            | 267                 | 126.3                  | 66.5        | 93.3                 |
| Jasper Pass                       | 21A06A  | 5400      | 4/13           | 290                 | 133.0                  | 78.0        | 91.1                 |
|                                   |         |           | 5/2            | 287                 | 134.2                  | 71.8        | 101.2                |

# Average based on 1958-1972 average

\* Average for years of record

+ Snow water equivalent estimated from aerial stadia observation

\*\* April 1 - Late Measurement



## SNOW DATA TO MAY 1, 1974 - APPENDIX 8

## SNOW

| DRAINAGE BASIN and/or SNOW COURSE |        |           | THIS YEAR      |                     |                        | PAST RECORD            |           |                      |
|-----------------------------------|--------|-----------|----------------|---------------------|------------------------|------------------------|-----------|----------------------|
| NAME                              | Number | Elevation | Date of Survey | Snow Depth (Inches) | Water Content (Inches) | Water Content (inches) | Last Year | Average <sup>#</sup> |

BAKER RIVER (Cont.)

|                              |        |      |        |     |       |      |      |
|------------------------------|--------|------|--------|-----|-------|------|------|
| Komo Kulshan                 | 21A17  | 800  | 5/3    | 0   | 0.0   | 0.0  | 0.7  |
| Marten Lake                  | 21A09A | 3600 | **4/11 | 258 | 125.0 | 59.8 | 78.1 |
|                              |        |      | 4/13   | 268 | 129.0 | 63.0 | 80.4 |
|                              |        |      | 5/2    | 241 | 122.3 | 60.3 | 83.8 |
| Mount Blum +<br>Panorama New | 21A18a | 5800 | 4/13   | 206 | 95.0  | 68.0 | -    |
|                              |        |      | **4/11 | 238 | 114.7 | 58.7 | -    |
|                              |        |      | 4/28   | 223 | 146.1 | 57.5 | -    |
| Rocky Creek                  | 21A12A | 2100 | **4/10 | 108 | 51.9  | 16.9 | 29.2 |
|                              |        |      | 4/13   | 96  | 48.0  | 18.0 | 25.5 |
|                              |        |      | 5/2    | 83  | 37.4  | 8.7  | 22.6 |
| Schreibers Meadow            | 21A10A | 3400 | **4/10 | 209 | 104.2 | 47.2 | 65.6 |
|                              |        |      | 4/13   | 194 | 97.0  | 42.0 | 63.0 |
|                              |        |      | 5/2    | 196 | 100.4 | 45.4 | 67.5 |
| S. F. Thunder Creek          | 21A14A | 2200 | **4/10 | 17  | 7.6   | 0.0  | 5.3  |
|                              |        |      | 4/13   | 22  | 10.0  | 1.0  | 1.7  |
|                              |        |      | 5/3    | 0   | 0.0   | 0.0  | 1.1  |
| Sulphur Creek                | 21A13  | 1600 | **4/10 | 41  | 18.0  | 2.2  | 13.6 |
|                              |        |      | 5/2    | 16  | 7.0   | 0.0  | 6.4  |
| Three Mile Creek             | 21A15  | 4500 | **4/10 | 0   | 0.0   | 0.0  | 1.7  |
|                              |        |      | 5/3    | 0   | 0.0   | 0.0  | 0.0  |
|                              |        |      | 4/13   | 244 | 107.5 | 47.8 | 71.2 |
| Watson Lakes                 | 21A08A | 4500 | **4/12 | 216 | 95.0  | 59.0 | 72.9 |
|                              |        |      | 5/2    | 210 | 98.8  | 49.6 | 76.9 |

NOOKSACK RIVER

|              |       |      |        |     |       |      |   |
|--------------|-------|------|--------|-----|-------|------|---|
| Panorama New | 21A26 | 4300 | **4/11 | 238 | 114.7 | 58.7 | - |
|              |       |      | 4/28   | 223 | 146.1 | 57.5 | - |

OLYMPIC PENINSULA

|                        |       |      |      |     |       |      |      |
|------------------------|-------|------|------|-----|-------|------|------|
| <u>MORSE CREEK</u>     |       |      |      |     |       |      |      |
| Cox Valley             | 23B14 | 4500 | 4/29 | 125 | 55.4  | 27.9 | -    |
| <u>ELWHA RIVER</u>     |       |      |      |     |       |      |      |
| Hurricane              | 23B03 | 4500 | 5/4  | 77  | 32.0  | 13.8 | 26.9 |
| <u>SKOKOMISH RIVER</u> |       |      |      |     |       |      |      |
| Black & White          | 23B07 | 4200 | 4/29 | 146 | 68.2  | 31.2 | -    |
| Black & White Lakes    | 23B06 | 4700 | 4/29 | 188 | 101.6 | 53.2 | -    |
| Home Sweet Home        | 23B05 | 5200 | 4/29 | 245 | 126.2 | 64.3 | -    |

# Average based on 1958-1972 average

+ Snow water equivalent estimated from aerial stadia observation

\*\* April 1 - Late measurement



# Agencies Assisting with Snow Surveys

## GOVERNMENT AGENCIES

### Canada:

Department of Lands, Forests and Water Resources,  
Water Resources Service, British Columbia

### States:

Washington State Department of Ecology  
Washington State Department of Natural Resources

### Federal:

Department of the Army  
Corps of Engineers  
U. S. Department of Agriculture  
Forest Service  
U. S. Department of Commerce  
NOAA, National Weather Service  
U. S. Department of the Interior  
Bonneville Power Administration  
Bureau of Reclamation  
Geological Survey  
National Park Service

## PUBLIC AND PRIVATE UTILITIES

Chelan County P.U.D.  
Pacific Power and Light Company  
Puget Sound Power and Light Company  
Washington Water Power Company

## OTHER PUBLIC AGENCIES

Okanogan Irrigation District  
Wenatchee Heights Irrigation District

## MUNICIPALITIES

City of Tacoma  
City of Seattle

*Other organizations and individuals furnish valuable information for  
snow survey reports. Their cooperation is gratefully acknowledged.*



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